

3.7.1 Number of collaborative activities with other institutions/ research establishments/industry for research and academic development of faculty and students per year (10)							
3.7.1.1: Total number of Collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students year wise during the last five years							
Sl. No.	Title of the collaborative activity	Name of the collaborating agency with contact details	Number of the participant	Year of collaboration	Duration	Nature of the activity	Link to the relevant document
1	Spoken Tutorial Project, IIT Bombay	Spoken Tutorial Project, IIT Bombay	33	2016	29-03-16	Exchange of academic information, conference and research	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
2	Sardar Swaran Singh National Institute of Bio-Energy, Kapurthala	Sardar Swaran Singh National Institute of Bio-Energy, Kapurthala	28	2016	16-06-16	Faculty and students exchange, collaborative research	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
3	South Dakota School of Mines and Technology, USA	South Dakota School of Mines and Technology, USA	29	2016	12-09-16	Faculty and students exchange, collaborative research	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
4	IHBT Palampur	IHBT Palampur	30	2016	16-08-2016	Academic and Research Programmes in Broad areas of bioscience and biotechnology and Chemical Sciences	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
5	Hybrid molecules: The privileged scaffolds for various pharmaceuticals	UGC Sponsored Centre for Advanced Studies, Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84994316082&doi=10.1016%2fj.eimech.2016.08.039&partnerID=40&md5=90cb8119f719d1e4545a2d7e2956d496
6	Bioactive compounds in banana and their associated health benefits- A review	Department of Biotechnology, Khalsa College, Amritsar, Punjab 143002, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84960869185&doi=10.1016%2fj.foodchem.2016.03.033&partnerID=40&md5=f39fd6796281e62f930a576494d51165
7	A TICT based NIR-fluorescent probe for human serum albumin: A pre-clinical diagnosis in blood serum	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-1, Guru Nanak Dev University, Amritsar, Punjab, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84953775875&doi=10.1039%2fc5cc08217j&partnerID=40&md5=4aec6e3fb78560705036dab58ae37355
8	Plant steroidal hormone epibrassinolide regulate - Heavy metal stress tolerance in Oryza sativa L. by modulating antioxidant defense expression	Department of Biotechnology, Savitribai Phule Pune University, Ganeshkhind, Pune, Maharashtra, 411007, India; Serum Institute of India Ltd., Hadapsar, Pune, Maharashtra, 411028, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84941079246&doi=10.1016%2fj.envexpbot.2015.08.005&partnerID=40&md5=fab646344d35b6237086bd545b6c738f
9	In vitro antioxidant and antimicrobial properties of jambolan (Syzygium cumini) fruit polyphenols	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	7	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84952055797&doi=10.1016%2fj.lwt.2015.09.038&partnerID=40&md5=cafe949809bce36781d63c31683857f
10	Earthworms, pesticides and sustainable agriculture: a review	School of Biotechnology and Biosciences, Lovely Professional University, Phagwara, Punjab, India; Department of Zoology, Khalsa College Amritsar, Punjab, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84960093226&doi=10.1007%2fs11356-016-6375-0&partnerID=40&md5=7d2ccb39a9791a809e77096eb778ee55
11	Hexaarylbenzene: Evolution of Properties and Applications of Multitalented Scaffold	Department of Chemistry, UGC Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84983605233&doi=10.1021%2facs.chemrev.6b00144&partnerID=40&md5=d43d565d3ba313d200ae61d04fbc661f
12	Tunable microwave absorption in Co[sbnd]Al substituted M-type Ba[sbnd]Sr hexagonal ferrite	Department of Electronics and Communication Engineering, Yadavindra College of Engineering, Punjabi University Guru Kashi Campus, Talwandi Sabo, Punjab, India; Department of Electronics and Communication Engineering, Rayat Bahra Institute of Engineering and Nanotechnology HoshiarpurPunjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Electronics and Communication Engineering, I.K.G. Punjab Technical University, Kapurthla, India; Department of Physics, University of Memphis, United States; Department of Physics, University school of sciences, Gujarat University, Navrangpura, Ahmedabad, Gujarat, India; Institute of Technology, Nirma University, Ahmedabad, Gujarat, India	9	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84989917074&doi=10.1016%2fj.matdes.2016.08.049&partnerID=40&md5=c1b87072971b6f67ee20e48bfa311185
13	Micellization Behavior of Surface Active Ionic Liquids Having Aromatic Counterions in Aqueous Media	Department of Chemistry, UGC-Centre for Advance Studies II, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84959420178&doi=10.1021%2facs.jpcc.5b09688&partnerID=40&md5=154e78323ac55b4163a8a5247f0a1b73

14	Physicochemical and rheological properties of starch and flour from different durum wheat varieties and their relationships with noodle quality	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Division of Genetics, Indian Agricultural Research Institute, New Delhi, 110012, India	6	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964556434&doi=10.1007%2fs13197-016-2202-3&partnerID=40&md5=debc590e9988d3f78c4e7fdbae86d24e
15	Structural properties of Bi2O3-B2O3-SiO2-Na2O glasses for gamma ray shielding applications	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84949921652&doi=10.1016%2fj.radphyschem.2015.12.003&partnerID=40&md5=f71a8eeb503286307c1ad91e700834e6
16	A charge transfer based ratiometric fluorescent probe for detection of hydrazine in aqueous medium and living cells	Department of Chemistry, UGC-Centre for Advanced Studies-1, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	6	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84942279783&doi=10.1016%2fj.snb.2015.08.078&partnerID=40&md5=a5eec13deecd6c1e314a32a2749dfd4
17	Diphenylpyrimidinone-salicylideneamine-new ESIPT based AIEgens with applications in latent fingerprinting	Department of Chemistry, UGC Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143 005, India; Department of RIC, IK Gujral Punjab Technical University, Kapurthala, Punjab, 144601, India; Department of Chemical Sciences, IK Gujral Punjab Technical University, Kapurthala, Punjab, 144601, India	5	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85000938312&doi=10.1039%2fc6tc03701a&partnerID=40&md5=bb2e49447f365ea654af35fd7d4361ea
18	Composition, bioactive compounds and antioxidant activity of common Indian fruits and vegetables	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Centre for Applied Agriculture, Central University of Punjab, Bathinda, 151001, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84997496980&doi=10.1007%2fs13197-016-2412-8&partnerID=40&md5=903a194e89a4d4df6d7481f05228030f
19	Development of eggless gluten-free rice muffins utilizing black carrot dietary fibre concentrate and xanthan gum	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab -143005, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84946782227&doi=10.1007%2fs13197-015-2103-x&partnerID=40&md5=b4ad030a1825b0accd37ce5df033a50
20	Pre-sowing seed treatment with 24-epibrassinolide ameliorates pesticide stress in Brassica juncea L. Through the modulation of stress markers	Plant Stress Physiology Lab, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, India; Department of Botany and Environmental Science, Sri Guru Granth Sahib World University, Fatehgarh Sahib, India; Biology Department, College of Science and Humanities, Prince Sattam bin Abdulaziz University, Alkharij, Saudi Arabia; Department of Botany and Microbiology, Faculty of Science, King Saud University, Riyadh, Saudi Arabia; Department of Botany, S. P. College, Srinagar, India	9	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84994568460&doi=10.3389%2ffpls.2016.01569&partnerID=40&md5=2128e40471ba683c71709b563255f3a4
21	Applications and toxicity of graphene family nanomaterials and their composites	Department of Zoology, Khalsa College, Amritsar, Punjab, India	1	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961644609&doi=10.2147%2fNSA.S101818&partnerID=40&md5=d2b7923bb32e119e39966c5f633be226
22	Triazole tethered C5-curcuminoid-coumarin based molecular hybrids as novel antitubulin agents: Design, synthesis, biological investigation and docking studies	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Lloyd Institute of Management and Technology, Greater Noida, UP, India; Indian Institute of Integrative Medicine, Jammu, India	7	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962685100&doi=10.1016%2fie.jimech.2016.03.050&partnerID=40&md5=9d13ee9847d3ad96efc6239fd1c4e06f
23	Development of modified AES algorithm for data security	Department of Electronics Technology, Guru Nanak Dev University, Regional Campus Gurdaspur, Gurdaspur, Punjab 143521, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84954041268&doi=10.1016%2fj.jileo.2015.11.188&partnerID=40&md5=4c551a7f45418fa9b1facdb1637901ec
24	Effect of nonthermal plasma on physico-chemical, amino acid composition, pasting and protein characteristics of short and long grain rice flour	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; BioPlasma Group, Dublin Institute of Technology, Dublin 1, Ireland; Department of Food Biosciences, Teagasc Food Research Centre, Ashtown, Dublin, Ireland; School of Chemical Engineering, University of New South Wales, Australia	8	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84953269940&doi=10.1016%2fj.foodres.2015.12.019&partnerID=40&md5=94f26bf21ddf52ec7fa42d49774e9b2f
25	Self-assembled vesicle and rod-like aggregates of functionalized perylene diimide: Reaction-based near-IR intracellular fluorescent probe for selective detection of palladium	Department of Chemistry, UGC Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Applied Sciences, IK Gujral Punjab Technical University, Kapurthala, Punjab, 144601, India	7	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84971229089&doi=10.1039%2fc6tb00512h&partnerID=40&md5=7b3b1f2dd608cd2f0bbc27d95c289db0
26	Structural diversity, physicochemical properties and application of imidazolium surfactants: Recent advances	Department of Pure and Applied Chemistry, Faculty of Science and Technology, Research Institute for Science and Technology, Tokyo University of Science, 2641 Yamazaki, Noda, Chiba, 278-8510, Japan; Department of Chemistry, UGC Sponsored-Centre for Advance Studies - i, Guru Nanak Dev University, Amritsar, 143 005, India	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979466035&doi=10.1016%2fj.cis.2016.03.005&partnerID=40&md5=1856e704070b1657b36f906c9e10c18b

27	Interdependency of Reactive Oxygen Species generating and scavenging system in salt sensitive and salt tolerant cultivars of rice	Guru Nanak Dev University, Department of Biotechnology, Amritsar, Punjab, 143005, India; Augusta University, Department of Oral biology, Augusta, GA, United States	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84975477345&doi=10.1186%2fs12870-016-0824-2&partnerID=40&md5=4e7eb81b005b4397c8a52eaa2a8db83d
28	Impact of germination on flour, protein and starch characteristics of lentil (Lens culinari) and horsegram (Macrotyloma uniflorum L.) lines	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84951955968&doi=10.1016%2fj.jwt.2015.07.075&partnerID=40&md5=1398e13593268f24f8b4ab5a7611e7b5
29	Temperature dependent selective and sensitive terbium doped ZnO nanostructures	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, BBK DAV College for Women, Amritsar, 143001, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84960191930&doi=10.1016%2fj.snb.2016.03.001&partnerID=40&md5=49c918b2070a5e0eaabe03e4af79acfe
30	Structural, optical, dielectric and thermal properties of molybdenum tellurite and borotellurite glasses	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Chemistry and Process and Recourse Engineering, University of Cantabria, Spain; Chemistry and Biochemistry Department, Florida State University, Tallahassee, FL 32306, United States	5	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964526377&doi=10.1016%2fj.inoncrysol.2016.04.033&partnerID=40&md5=2fa24c9bbf98d2956a2495690551c96f
31	Isolation, composition, and physicochemical properties of starch from legumes: A review	Department of Food Science and Technology, University of Kashmir, Srinagar, Jammu & Kashmir, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab, India	6	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84985987276&doi=10.1002%2fstar.201600007&partnerID=40&md5=1874005769cfea5d81fb5630f295fe63
32	Diversity in quality traits amongst Indian wheat varieties I: Flour and protein characteristics	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Division of Genetics, Indian Agricultural Research Institute New Delhi 110012, India	7	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84939839722&doi=10.1016%2fj.foodchem.2015.07.125&partnerID=40&md5=47a8ceb8f964e9c5104bda00d2fcbfb1
33	Cationic Ru(II), Rh(III) and Ir(III) complexes containing cyclic π -perimeter and 2-aminophenyl benzimidazole ligands: Synthesis, molecular structure, DNA and protein binding, cytotoxicity and anticancer activity	Department of Chemistry, Faculty of Science, Banaras Hindu University, Varanasi, 221 005, India; Biochemistry Section, Department of Zoology, Banaras Hindu University, Varanasi, 221005, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143 005, India	8	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84946134874&doi=10.1016%2fj.jorganchem.2015.10.008&partnerID=40&md5=5e987a5c68b54de8bacab51b98f8defe
34	A comprehensive approach to discriminate DDoS attacks from flash events	Shaheed Bhagat Singh State Technical Campus, Ferozepur, Punjab, India; Guru Nanak Dev University, Amritsar, Punjab, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957693763&doi=10.1016%2fj.iisa.2015.11.001&partnerID=40&md5=aueb5a198d7e6f874baa6f561858ca2a
35	Mycothermus thermophilus (Syn. Scytalidium thermophilum): Repertoire of a diverse array of efficient cellulases and hemicellulases in the secretome revealed	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Center for Structural and Functional Genomics, Concordia University, 7141 Sherbrooke Street West, Montreal, Quebec H4B 1R6, Canada	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84992580001&doi=10.1016%2fj.biortech.2016.10.018&partnerID=40&md5=3d3928654a3ff14947dfb7bbc145058a
36	Diversity in quality traits amongst Indian wheat varieties II: Paste, dough and muffin making properties	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Division of Genetics, Indian Agricultural Research Institute, New Delhi, 110012, India	6	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84945892074&doi=10.1016%2fj.foodchem.2015.10.035&partnerID=40&md5=4e96256f5938c12681fff13f89562853
37	Pyrimidine-based antimalarials: Design strategies and antiplasmodial effects	Department of Chemistry, Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India; Department of Nephrology, Guru Nanak Dev Hospital, Majitha Road, Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84971224800&doi=10.1039%2fc6md00084c&partnerID=40&md5=a7fad4cf6d3ff0d273d7cb7f1a3d7b03
38	Investigation of structural, optical, magnetic properties and antibacterial activity of Ni-doped zinc oxide nanoparticles	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India; Department of Electronics and Communication Engineering, Arni University, Indora, H.P., India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84968662563&doi=10.1007%2fs10854-016-4975-6&partnerID=40&md5=a93dfafb3c6c5578b51f21e684b49e50
39	A comprehensive review of N-heterocycles as cytotoxic agents	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006830463&doi=10.2174%2f0929867323666160809093930&partnerID=40&md5=795044bafa122970f67e28144c9c358f
40	A systematic physicochemical investigation on solubilization and in vitro release of poorly water soluble oxcarbapine drug in pluronic micelles	Department of Chemistry, UGC-centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84970028699&doi=10.1016%2fj.colsurfa.2016.05.043&partnerID=40&md5=cd742987a7eca279433daf6631dc7428
41	Starch digestibility and bioactivity of high altitude hulless barley	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84940183543&doi=10.1016%2fj.foodchem.2015.07.149&partnerID=40&md5=2d420a2245423aa5396eb982a954aa63
42	Supramolecular ensemble of a TICT-AIEE active pyrazine derivative and CuO NPs: A potential photocatalytic system for sonogashira couplings	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	5	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84973598812&doi=10.1021%2facsatal.6b00393&partnerID=40&md5=af1ede307a3816c73fc44f25d0da1e99

43	Antidiabetic potential of a peptide isolated from an endophytic <i>Aspergillus awamori</i>	Department of Microbiology, Guru Nanak Dev University, Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84955284241&doi=10.1111%2fjam.12998&partnerID=40&md5=f06c5c4b841847469a3a54fa50994869
44	Synthesis of Co-Zr doped nanocrystalline strontium hexaferrites by sol-gel auto-combustion route using sucrose as fuel and study of their structural, magnetic and electrical properties	Department of Chemistry, Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India; Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India	5	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84977581498&doi=10.1016%2fj.ceramint.2016.06.053&partnerID=40&md5=358b86d879b4339e21331e4af3079e77
45	Aqueous extract from the <i>Withania somnifera</i> leaves as a potential anti-neuroinflammatory agent: A mechanistic study	Guru Nanak Dev University, Department of Biotechnology, Amritsar, Punjab, 143005, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84983049664&doi=10.1186%2fs12974-016-0650-3&partnerID=40&md5=1fb4e9fdf0c00f1fbd2da89c585fd55d
46	Water quality assessment of river Beas, India, using multivariate and remote sensing techniques	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Biodiversity Division, Institute of Himalayan Bioresource Technology (Council for Scientific and Industrial Research), Palampur, H.P. 176061, India	5	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957590850&doi=10.1007%2fs10661-016-5141-6&partnerID=40&md5=ddd7697cea9f16f58fd61a70603f4f
47	Earthworm as ecological engineers to change the physico-chemical properties of soil: Soil vs vermicast	Department of Zoology, Khalsa College, Amritsar, Punjab, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957074561&doi=10.1016%2fj.ecoleng.2016.01.072&partnerID=40&md5=c421b4f7090a57f7fb7e663b7bb2fe01
48	A review of near dry machining/minimum quantity lubrication machining of difficult to machine alloys	Department of Mechanical Engineering, Punjabi University, Patiala, Punjab, 147002, India; Department of Mechanical Engineering, Swami Sarvanand Giri Panjab University Regional Centre, Hoshiarpur, Punjab, 146110, India; Department of Mechanical Engineering, Guru Nanak Dev Engineering College, Ludhiana, Punjab, 141006, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84969245604&doi=10.1504%2fIJMMM.2016.076276&partnerID=40&md5=e09a4cfb3f5e5ffbc803bd857dacf2e
49	A bodipy based fluorescent probe for evaluating and identifying cancer, normal and apoptotic C6 cells on the basis of changes in intracellular viscosity	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-1, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84960877229&doi=10.1039%2fc5tb02476e&partnerID=40&md5=afd8f08b7b0d4b102394c9303ecf80e4
50	Microwave characterization of Co-Ti substituted barium hexagonal ferrites in X- band	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; Rayat Bahra Institute of Engineering and Nanotechnology, Hoshiarpur, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84950294591&doi=10.1016%2fj.jmmm.2015.12.044&partnerID=40&md5=98a46787557d85836af81370f56e31dd
51	Design strategies, structure activity relationship and mechanistic insights for purines as kinase inhibitors	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Pharmacy, Rayat-Bahara Group of Institutes, Hoshiarpur, Punjab 146001, India	7	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978793212&doi=10.1016%2fj.ejmech.2016.02.018&partnerID=40&md5=d87375f32dab5e4b14e506915ec6d784
52	Structural, optical and magnetic properties of Sm doped ZnO at dilute concentrations	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Materials Science Division, Inter University Accelerator Centre, Aruna Asif Ali Marg, New Delhi, 110067, India	5	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988641967&doi=10.1039%2fc6ra12905f&partnerID=40&md5=d5d018dd88c8efab6fad321973480ba
53	Self-assembled nanorods of bay functionalized perylenediimide: Cu2+ based 'turn-on' response for INH, complementary NOR/OR and TRANSFER logic functions and fluorosolvatochromism	Department of Chemistry, UGC Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Applied Sciences, IK Gujral Punjab Technical University, Kapurthala, Punjab, 144601, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84971260683&doi=10.1039%2fc6tc00422a&partnerID=40&md5=f97e1d5affaf597a340d73c442d52f36
54	Biocontrol potential of <i>Streptomyces hydrogenans</i> strain DH16 toward <i>Alternaria brassicicola</i> to control damping off and black leaf spot of <i>Raphanus sativus</i>	Department of Microbiology, Guru Nanak Dev University, Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85007378626&doi=10.3389%2fjpls.2016.01869&partnerID=40&md5=a06138aa7e1e0bbdb7a66ee409ce9723
55	Temporal Informative Analysis in Smart-ICU Monitoring: M-HealthCare Perspective	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978160772&doi=10.1007%2fs10916-016-0547-9&partnerID=40&md5=631adc9af806d821c98e15f7457d94
56	Structural, optical and gas sensing properties of pure and Mn-doped In2O3 nanoparticles	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979459116&doi=10.1016%2fj.ceramint.2016.03.233&partnerID=40&md5=03785a0a6484409e23c384b90cab9cab
57	Cerebral malaria – clinical manifestations and pathogenesis	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, 143005, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961172915&doi=10.1007%2fs11011-015-9787-5&partnerID=40&md5=7c226910ece8f9b57d200795cb978692

58	Effect of crystallite size, Raman surface modes and surface basicity on the gas sensing behavior of terbium-doped SnO ₂ nanoparticles	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84949294505&doi=10.1016%2fj.ceramint.2015.11.111&partnerID=40&md5=e6ac001b7b19cb3ab99940851def395d
59	Heavy metals in vegetables: screening health risks involved in cultivation along wastewater drain and irrigating with wastewater	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964310861&doi=10.1186%2fs40064-016-2129-1&partnerID=40&md5=d041dc2fb0bd3c9cf94a41a0db1e10b0
60	Effect of duration of solid state fermentation by <i>Aspergillus awamori</i> on antioxidant properties of wheat cultivars	Department of Food Science and Technology, Chaudhary Devi Lal University, Sirsa, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962828806&doi=10.1016%2fj.lwt.2016.04.008&partnerID=40&md5=bbc72e7e8e800188bda97acee65ee716
61	Vibrational spectroscopic study of muscovite and biotite layered phyllosilicates	Department of Physics, Khalsa College, Amritsar, 143 005, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143 005, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84958698781&partnerID=40&md5=ef6996d32d198d1c1bdb790bf09c1c10
62	Structural and photoluminescence properties of tin oxide and tin oxide: C core-shell and alloy nanoparticles synthesised using gas phase technique	Indian Institute of Technology Delhi, Hauz Khas, New Delhi, 110016, India; Guru Nanak Dev University, Grand Trunk Rd, Off NH 1, Amritsar, Punjab, 143005, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84989871793&doi=10.1063%2f1.4964313&partnerID=40&md5=1006864e408f846c708801a4e7f7a5b8
63	Comparative statistical analysis of carcinogenic and non-carcinogenic effects of uranium in groundwater samples from different regions of Punjab, India	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988019173&doi=10.1016%2fj.apradiso.2016.09.014&partnerID=40&md5=52b81651135347043cba9e58ce292d5d
64	Functionality and digestibility of albumins and globulins from lentil and horse gram and their effect on starch rheology	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978375304&doi=10.1016%2fj.foodhyd.2016.07.013&partnerID=40&md5=a1b144d349950f7dee5b39e14f085bab
65	Analysis of cis-acting regulatory elements of Respiratory burst oxidase homolog (Rboh) gene families in Arabidopsis and rice provides clues for their diverse functions	Department of Biotechnology, Guru Nanak Dev University (GNDU), Amritsar, Punjab 143005, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964247534&doi=10.1016%2fj.compbiolchem.2016.04.002&partnerID=40&md5=3a0ec510f56e963739c3983a46b97c50
66	Nanostructured lipid carrier in photodynamic therapy for the treatment of basal-cell carcinoma	Department of Pharmaceutics, Faculty of Pharmacy, Jamia Hamdard, New Delhi, India; Department of Pharmaceutical Technology, School of Pharmacy, International Medical University (IMU), Kuala Lumpur, Malaysia; Department of Pharmaceutics, Khalsa College of Pharmacy, Amritsar, India	7	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962431675&doi=10.3109%2f10717544.2016.1165310&partnerID=40&md5=c2e675c778a2530464588b57f7ac3ae2
67	Smart monitoring and controlling of Pandemic Influenza A (H1N1) using Social Network Analysis and cloud computing	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84948438296&doi=10.1016%2fj.jocs.2015.11.001&partnerID=40&md5=00ee0b06aa419b554f3567b732e358f1
68	Head-on collision of two dust ion acoustic solitary waves in a weakly relativistic multicomponent superthermal plasma	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84989840310&doi=10.1063%2f1.4963774&partnerID=40&md5=c8218abfb9ee250a052d541891741f1c
69	Quantitative assessment of possible human health risk associated with consumption of arsenic contaminated groundwater and wheat grains from Ropar Wetland and its environs	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry, Centre of Advance Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84981484891&doi=10.1007%2fs10661-016-5507-9&partnerID=40&md5=86223164f90e27a1bf88f99e79dc9b7a
70	Ferrocene-BODIPY Push-Pull dyad: A common platform for the sensing of Hg ²⁺ and Cr ³⁺	Department of Chemistry, UGC-Centre of Advance Studies-II, Guru Nanak Dev University, Amritsar, 143 005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957998688&doi=10.1016%2fj.snb.2016.01.134&partnerID=40&md5=5572ee82678f922e2d6d91174e2e0a04
71	Epibrassinolide-imidacloprid interaction enhances non-enzymatic antioxidants in Brassica juncea L	Plant Stress Physiology Lab, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957942886&doi=10.1007%2fs40502-016-0203-x&partnerID=40&md5=f4a5a710ded768fbb603d5ddc8c701d1
72	White light emission of Ce ³⁺ sensitized Sm ³⁺ doped lead alumino borate glasses	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	6	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84983543781&doi=10.1016%2fj.illum.2016.08.027&partnerID=40&md5=fbf568eff670488e958f55c255030fad
73	Physicochemical, Morphological, Pasting, and Rheological Properties of Tamarind (<i>Tamarindus indica</i> L.) Kernel Starch	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978151029&doi=10.1080%2f10942912.2015.1121495&partnerID=40&md5=8816a870f5b67da7f05e30a8fb63d956
74	Effect of feed moisture and extrusion temperature on protein digestibility and extrusion behaviour of lentil and horsegram	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Food Science and Technology, Punjab Agriculture University, Ludhiana, 141004, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961615480&doi=10.1016%2fj.lwt.2016.02.032&partnerID=40&md5=e58d77fdf8bd2bb6cc6987ff4e68393

75	Tinospora cordifolia ameliorates anxiety-like behavior and improves cognitive functions in acute sleep deprived rats	Medical Biotechnology Laboratory, Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	7	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966412921&doi=10.1038%2fsrep25564&partnerID=40&md5=c142b26e14d85730fdb826e1e4fb78b7
76	Radiological and Chemical Risk Assessment due to High Uranium Contents Observed in the Ground Waters of Mansa District (Malwa Region) of Punjab State, India: An Area of High Cancer Incidence	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84997047771&doi=10.1007%2fs12403-016-0215-9&partnerID=40&md5=4ab04022bc26f65baf31f5da4f1070f4
77	Comparison of composition, protein, pasting, and phenolic compounds of brown rice and germinated brown rice from different cultivars	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84994896185&doi=10.1094%2fCCEM-03-16-0066-R&partnerID=40&md5=5f5f6383068a710f8e5bdf9f6023c78a
78	Dansyl conjugated tripodal AIEEgen for highly selective detection of 2,4,6-trinitrophenol in water and solid state	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Bhabha Atomic Research Center, Mumbai, India	6	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84960119555&doi=10.1016%2fs.nsb.2016.03.008&partnerID=40&md5=3cab759dbf71780b336a6b6b854bf379
79	Investigations on structural, magnetic and electronic structure of Gd-doped ZnO nanostructures synthesized using sol-gel technique	Department of Physics, Punjabi University, Patiala, Punjab 147002, India; Applied Science Department, PEC University of Technology, Chandigarh, 160012, India; Institute of Physics, Academia Sinica, Taipei, 11529, Taiwan; National Synchrotron Radiation Research Center (NSRRC), Hsinchu, 30076, Taiwan; Materials Engineering Department, Indian Institute of Science, Bangalore, 560012, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	9	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84959489178&doi=10.1007%2fs00339-016-9707-5&partnerID=40&md5=febe8a33207f85b63dc8579d5da51325
80	Fruit and Vegetable Processing Waste: Renewable Feed Stocks for Enzyme Production	Guru Nanak Dev University, Amritsar, India; ICAR-Indian Institute of Horticultural Research, Bengaluru, India; University of Alberta, Edmonton, AB, Canada	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017464219&doi=10.1016%2fB978-0-12-802392-1.00002-2&partnerID=40&md5=6ff5529fdb6f15908589547f7e8e925e
81	Physicochemical, functional and antioxidant properties of flour from pearl millet varieties grown in India	Department of Food Science and Technology, Chaudhary Devi Lal University, Sirsa, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961678083&doi=10.1007%2fs11694-016-9308-1&partnerID=40&md5=9b425f99fad36541e84f6e34af5d1e4e
82	Combined effect of relativistic and ponderomotive nonlinearity on self-focusing of Gaussian laser beam in a cold quantum plasma	I.K Gujral Punjab Technical University, Kapurthala, 144601, India; Department of Applied Science, Lyallpur Khalsa College of Engineering, Jalandhar, 144001, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84975321736&doi=10.1017%2fS0263034616000276&partnerID=40&md5=91ffb1768133dbfadb565647a0b4e4fd
83	A comprehensive in silico analysis of non-synonymous and regulatory SNPs of human MBL2 gene	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India	5	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84976330742&doi=10.1186%2fs40064-016-2543-4&partnerID=40&md5=2b661387a7ff2fb58c7d680878736671
84	Heavy metals bioaccumulation in Berseem (Trifolium alexandrinum) cultivated in areas under intensive agriculture, Punjab, India	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84959371975&doi=10.1186%2fs40064-016-1777-5&partnerID=40&md5=af90bdd64e351fdae118c45c881ca70a
85	An Automatic Prediction of Epileptic Seizures Using Cloud Computing and Wireless Sensor Networks	Computer Section, Guru Nanak Dev University, Amritsar, Punjab, India; I. K. Gujral Punjab Technical University, Kapurthala, Punjab, India; Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India; Department of Computer Science and Engineering, Beant College of Engineering and Technology, Gurdaspur, Punjab, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988026093&doi=10.1007%2fs10916-016-0579-1&partnerID=40&md5=d957a3a75bfcb7e33fc592fe1bae7177
86	Magnesium and silver doped CaO–Na2O–SiO2–P2O5 bioceramic nanoparticles as implant materials	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Molecular Biology & Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India	7	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84967335430&doi=10.1016%2fceramint.2016.05.001&partnerID=40&md5=52df2b14148403cf0d535f386489ae8b
87	Phytoconstituents as apoptosis inducing agents: strategy to combat cancer	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry, UGC Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84938635416&doi=10.1007%2fs10616-015-9897-2&partnerID=40&md5=1ac729c5367e53601fdb70e03046cdd3
88	Synthesis, spectroscopy, structures and antimicrobial activity of mixed-ligand zinc(II) complexes of 5-nitro-salicylaldehyde thiosemicarbazones	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemistry, Keene State College, Keene, NH 03435-2001, United States	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964671328&doi=10.1039%2fc5ni02822a&partnerID=40&md5=c489d6fd4f1ae57a42b60379c7f35d15

89	Malbranchea cinnamomea: A thermophilic fungal source of catalytically efficient lignocellulolytic glycosyl hydrolases and metal dependent enzymes	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Division of Microbiology, ICAR-Indian Agricultural Research Institute, New Delhi, India; Centre for Structural and Functional Genomics, Concordia University, 7141 Sherbrooke Street West, Montréal, QC H4B 1R6, Canada	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84944394451&doi=10.1016%2fbiortech.2015.09.113&partnerID=40&md5=9d6c3d4188fb5fe54da018cd1a1b1622
90	Analysis of website usability evaluation methods	I. K. Gujral Punjab Technical University, Kapurthala, India; School of Information Technology, Apeejay Institute of Management Technical Campus, Jalandhar, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84997514444&partnerID=40&md5=da1138cd0fe6a8ba35dbc1d42f0b911e
91	Textile industry and occupational cancer	Department of Zoology, Khalsa College, G.T. Road, Amritsar, Punjab, 143001, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84982129192&doi=10.1186%2fs12995-016-0128-3&partnerID=40&md5=96b642bd57a2fdcf05257257b98afa4c
92	Synergistic antioxidant action of Vitamin E and rutin SNEDDS in ameliorating oxidative stress in a Parkinson's disease model	Pharmaceutics Research Laboratory, Department of Pharmaceutics, Faculty of Pharmacy, Hamdard University, New Delhi, India; Khalsa College of Pharmacy, Punjab, Amritsar, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988409854&doi=10.1088%2f0957-4484%2f27%2f37%2f375101&partnerID=40&md5=75ab7723ac130794f7e09003ad47cfb7
93	Investigation of luminescence and spectroscopic properties of Nd3+ ions in cadmium alkali borate glasses	BBK DAV College for Women, Amritsar, Punjab 143001, India; Guru Nanak Dev University, Amritsar, Punjab 143001, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964573544&doi=10.1016%2fj.optmat.2016.04.040&partnerID=40&md5=ed49191d01025a619d64162e29934f4b
94	An epidemic model of childhood disease dynamics with maturation delay and latent period of infection	IKG-Punjab Technical University, Kapurthala, 144601, India; Department of Applied Sciences, Khalsa College of Engineering and Technology, Amritsar, Punjab 143001, India; Department of Applied Sciences, ABV-Indian Institute of Information Technology and Management, Gwalior, M.P. 474015, India; Department of Applied Sciences, B.B.S.B. Engineering College, Fatehgarh Sahib, Punjab 140406, India; School of Mathematics, Thapar University, Patiala, Punjab 147004, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042329502&doi=10.1007%2fs40808-016-0131-9&partnerID=40&md5=d9c09a2c329b619c6a08fb2ea5282873
95	Physicochemical characterisation of corn extrudates prepared with varying levels of beetroot (Beta vulgaris) at different extrusion temperatures	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Food Science and Technology, Punjab Agricultural University, Ludhiana, Punjab, 141005, India	5	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962218396&doi=10.1111%2fjifs.13051&partnerID=40&md5=c49679a531f90cb78dfadd53cc4f4dff
96	Enhanced thermal energy conversion and dynamic hysteresis behavior of Sr-added Ba0.85Ca0.15Ti0.9Zr0.1O3 ferroelectric ceramics	School of Engineering, Indian Institute of Technology MandiHimachal Pradesh 175001, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85024854306&doi=10.1016%2fj.imat.2016.01.002&partnerID=40&md5=d eb5d4841bb68c98b79c65bad59162ce
97	A review of empirical modeling techniques to optimize machining parameters for hard turning applications	Department of Mechanical Engineering, Punjabi University, Patiala, Patiala, Punjab, 147002, India; Department of Industrial and Production Engineering, Dr. B.R. Ambedkar National Institute of Technology Jalandhar, Jalandhar, India; SSG Panjab University Regional Centre, Hoshiarpur, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964065873&doi=10.1177%2f0954405414558731&partnerID=40&md5=4833798d577088b04c62bd095750b74e
98	Effect of seed pre-soaking with 24-epibrassinolide on growth and photosynthetic parameters of Brassica juncea L. in imidacloprid soil	Plant Stress Physiology Lab, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978908846&doi=10.1016%2fj.ecoenv.2016.07.008&partnerID=40&md5=058584d7e4adddc7f6bddf481859524f
99	Curcumin alleviates ischemia reperfusion-induced acute kidney injury through NMDA receptor antagonism in rats	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Pharmacology, Khalsa College of Pharmacy, Amritsar, Punjab, India; Department of Veterinary Anatomy, Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, Punjab, India; Department of Pathology & Laboratory Medicine, Faculty of Medicine, University of Ottawa, Ottawa, ON, Canada	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84980327821&doi=10.1080%2f0886022X.2016.1214892&partnerID=40&md5=909ac3393f7c0173f23b86b468b9ac37
100	Withania somnifera Suppresses Tumor Growth of Intracranial Allograft of Glioma Cells	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Zentrum für Molekulare Neurobiologie, Universitätsklinikum Hamburg-Eppendorf, Martinistr. 52, Hamburg, 20246, Germany	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84937964399&doi=10.1007%2fs12035-015-9320-1&partnerID=40&md5=1d7a2df20ecd5957fe0363be98761c6

101	Insecticidal potential of an endophytic Cladosporium velox against Spodoptera litura mediated through inhibition of alpha glycosidases	Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962052806&doi=10.1016%2fpestbp.2016.01.004&partnerID=40&md5=217a981d83211b8716d1fd13d397bclc
102	DFT investigation on nonlinear optical (NLO) properties of novel borazine derivatives	Department of Chemistry, U.G.C. Centre of Advance Studies in Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	2	2016	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964528991&doi=10.1016%2fcomptc.2016.04.016&partnerID=40&md5=7b872ab688498c5bec6d80df04dea060
103	Chromanyl-isoxazolidines as Antibacterial agents: Synthesis, Biological Evaluation, Quantitative Structure Activity Relationship, and Molecular Docking Studies	Bio-Organic and Photochemistry Laboratory, Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143 005, India; University Institute of Pharmaceutical Sciences, Panjab University, Chandigarh, 160014, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab, 143 005, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957888414&doi=10.1111%2fcbdd.12653&partnerID=40&md5=dcf18c6b01593377719a94912d4270c8
104	α,α -Dicyanoolefins: Versatile substrates in organocatalytic asymmetric transformations	Department of Chemistry, U.G.C. Centre of Advance Studies in Chemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Institute of Organic Chemistry, RWTH Aachen University, Germany	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84983287829&doi=10.1039%2fc6ob01229a&partnerID=40&md5=0c6dcef9119a5302bbbd253dfdc7d5c
105	Understanding the mechanism of replacement of citrate from the surface of gold nanoparticles by amino acids: A theoretical and experimental investigation and their biological application	Centre for Nanoscience and Nanotechnology, Panjab University, Chandigarh, 160014, India; Department of Physics, Centre of Advanced Study in Physics, Panjab University, Chandigarh, 160014, India; Department of Physics, IIT Delhi110016, India; Department of Chemistry, Guru Nanak Dev University College, Chungh, Distt., Tarntaran, India; Department of UIET, Panjab University SSG Regional Centre, Hoshiarpur, Punjab, 146001, India	9	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84958205931&doi=10.1039%2fc5ra26502a&partnerID=40&md5=66a5a9f48803f739d9f22cfa799a485e
106	Evaluation of in vitro and in vivo nematocidal potential of a multifunctional streptomycete, Streptomyces hydrogenans strain DH16 against Meloidogyne incognita	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84982980718&doi=10.1016%2fj.micres.2016.07.009&partnerID=40&md5=61e6d5dbe1d280e8261b0fd3855701b
107	Structural, optical and dielectric properties of lead doped ZnS nanoparticles	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961218986&doi=10.1016%2fj.apsusc.2016.03.046&partnerID=40&md5=a0f253d415af5077e3be28b7945dfe43
108	A Budget-constrained Time and Reliability Optimization BAT Algorithm for Scheduling Workflow Applications in Clouds	Computer Engineering and Technology, GNDU, Amritsar, 143005, India; Computer Science and Engineering, UIET, Panjab University, Chandigarh, 160014, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84992395791&doi=10.1016%2fj.procs.2016.09.032&partnerID=40&md5=5af1c105cd4df97db97f85b2f2528f58
109	A supramolecular ensemble of a PBI derivative and Cu2O NPs: Potential photocatalysts for the Suzuki and Suzuki type coupling reactions	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-1, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84973122077&doi=10.1039%2fc5gc03012a&partnerID=40&md5=f5da72ce151a4a476b89e09b19a93f84
110	Impact of aggregation on fluorescence sensitivity of molecular probes towards nitroaromatic compounds	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964720727&doi=10.1039%2fc6tc00655h&partnerID=40&md5=10f859d7c66cc5a6158a32e87af86a11
111	Equilibrium, kinetics and thermodynamic parameters for adsorptive removal of dye Basic Blue 9 by ground nut shells and Eichhornia	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84859639941&doi=10.1016%2fj.arabic.2012.03.013&partnerID=40&md5=2814283bd3ef76c527a588d1e7457614
112	Evaluation of secretome of highly efficient lignocellulolytic Penicillium sp. Dal 5 isolated from rhizosphere of conifers	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Division of Microbiology, ICAR-Indian Agricultural Research Institute, New Delhi, India; Centre for Structural and Functional Genomics, Concordia University, 7141 Sherbrooke Street West, Montreal, QC H4B 1R6, Canada	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84975510465&doi=10.1016%2fbi.biortech.2016.06.040&partnerID=40&md5=a5ea8908c2f146f5d71810da85cb7360
113	An intelligent system for predicting and preventing MERS-CoV infection outbreak	Computer Science and Engineering Department, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84936791590&doi=10.1007%2fs11227-015-1474-0&partnerID=40&md5=156d70a16782344ee23cece3358c4ccd
114	Non-equilibrium tunneling through Au-C20-Au molecular bridge using density functional theory-non-equilibrium Green function approach	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966550809&doi=10.1557%2fjmr.2016.170&partnerID=40&md5=211921240791a387d9a928fd8994f17a
115	Composition and Concentration Gradient Induced Structural Transition from Micelles to Vesicles in the Mixed System of Ionic Liquid-Diclofenac Sodium	Department of Chemistry, UGC, Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India; Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978152317&doi=10.1021%2facs.langmuir.6b01175&partnerID=40&md5=695607beec93331b0fa6f398657014c3

116	Physical and magnetic properties of Mn-Zr doped La-Sr ferrite prepared by the auto-combustion route	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84977934912&doi=10.1016%2fj.ceramint.2016.03.078&partnerID=40&md5=a6677d0298990f88f2cd8b871133aaaf
117	B2O3–MgO–SiO2–Na2O–CaO–P2O5–ZnO bioactive system for bone regeneration applications	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India	5	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84947299606&doi=10.1016%2fj.ceramint.2015.11.029&partnerID=40&md5=95080d2dd0508e2e0213d8c460f35151
118	Rhamnolipid mediated enhanced degradation of chlorpyrifos by bacterial consortium in soil-water system	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; MTCC, IMTECH, Sector 39-A, Chandigarh, 160036, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84985990759&doi=10.1016%2fj.ecoenv.2016.07.020&partnerID=40&md5=d7f1a0fc39fe3cb7964165f76cfc75e
119	Effect of canning on color, protein and phenolic profile of grains from kidney bean, field pea and chickpea	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84995539005&doi=10.1016%2fj.foodres.2016.07.022&partnerID=40&md5=0ffdc80d12a8985127ea9d1fa5c314da
120	Behavior of Cold Spray Coating in Real Incineration Environment	Punjab Technical University, Kapurthala, Punjab, India; Shaheed Bhagat Singh College of Engineering & Technology, Ferozpur, Punjab, India; Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India; ASB Industries Inc., Barberton, OH, United States	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84908264768&doi=10.1080%2f10426914.2014.912319&partnerID=40&md5=13f3b20c8cc3cd54990e744d2bd56295
121	A study on uranium and radon levels in drinking water sources of a mineralized zone of Himachal Pradesh, India	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Radiological Physics and Advisory Division, Bhabha Atomic Research Centre, Mumbai, 400085, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84948438198&doi=10.1007%2fs10967-015-4629-9&partnerID=40&md5=f11602904261af577868bd859a3d4669
122	Construction and Validation of Binary Phase Diagram for Amorphous Solid Dispersion Using Flory–Huggins Theory	GVM College of Pharmacy, Sonipat, Haryana 131001, India; Khalsa College of Pharmacy, Amritsar, Punjab 143001, India; College of Pharmacy, University of Minnesota, Minneapolis, MN 55455, United States	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84931858126&doi=10.1208%2fs12249-015-0343-8&partnerID=40&md5=f000e898b2b49f5c56ecf975c30b8eb5
123	Recent developments in the synthesis of condensed β -lactams	Department of Chemistry, I. K. Gujral Punjab Technical University, Kapurthala Punjab, 144603, India; Department of Chemistry, Guru Nanak Dev University, Amritsar Punjab, 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84992345405&doi=10.1039%2fc6ra20973d&partnerID=40&md5=4c049022f6a75ecf1cda0093a21b23f8
124	Design and analysis of stochastic DSS query optimizers in a distributed database system	Department of Computer Science and Applications, DAV University, Jalandhar, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84947764660&doi=10.1016%2fj.eij.2015.10.003&partnerID=40&md5=3c8856e3630c060e0e05397e799df1ff
125	A joint application of optimal threshold based discrete cosine transform and ASCII encoding for ECG data compression with its inherent encryption	Department of Electronics and Communication Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar, Punjab 144011, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84986294595&doi=10.1007%2fs13246-016-0476-4&partnerID=40&md5=6dfcb2cdc86430cac422a86b5ae09037
126	Attached, unattached fraction of progeny concentrations and equilibrium factor for dose assessments from 222Rn and 220Rn	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Radiological Physics and Advisory Division, Bhabha Atomic Research Centre, Mumbai, 400085, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978726688&doi=10.1007%2fs00411-016-0656-3&partnerID=40&md5=8eff011d711015db016dbc5ec2e5af95
127	Effect of antibiotic on survival and development of <i>Spodoptera litura</i> (Lepidoptera: Noctuidae) and its gut microbial diversity	Department of Zoology, Guru Nanak Dev University, Amritsar (Punjab), 143005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar (Punjab), 143005, India	4	2016	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84959149945&doi=10.1017%2fs0007485316000031&partnerID=40&md5=b6c27456822345f0c6c1f50d3980ec13
128	Financial Inclusion and Human Development: A Cross-country Evidence	Doctoral Research Fellow (JRF), Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052007829&doi=10.1177%2f0258042X16658734&partnerID=40&md5=e3c0ba54019f1b06b71d179c3c3e6ca2
129	Ferromagnetic α -Fe2O3 NPs: A potential catalyst in Sonogashira-Hagihara cross coupling and hetero-Diels-Alder reactions	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-1, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961575641&doi=10.1039%2fc5cc02337h&partnerID=40&md5=f3d7bceb7987cb764aeac1fd18b7de46
130	The Effect of Co Doping on the Structural, Optical, and Magnetic Properties of Fe-Doped ZnO Nanoparticles	Department of Electronics & Communication Engineering, Desh Bhagat University, Mandi Gobindgarh, India; Chitkara University (Punjab Campus), Chandigarh, India; Department of Electronics & Communication Engineering, GNDU Regional Campus, Gurdaspur, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84958741101&doi=10.1007%2fs10948-015-3349-2&partnerID=40&md5=e635f3a4751c9cb33a8735d0cd7fa094
131	Sildenafil obviates ischemia-reperfusion injury-induced acute kidney injury through peroxisome proliferator-activated receptor γ agonism in rats	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Pharmacology, Khalsa College of Pharmacy, Amritsar, India; Department of Veterinary Anatomy, Guru Angad Dev Veterinary and Animal Science University, Ludhiana, India	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84958259911&doi=10.1016%2fj.iss.2015.09.035&partnerID=40&md5=f812cd6c6d367e11cea42ab91e27dce8

132	Antioxidant and in vivo genoprotective effects of phenolic compounds identified from an endophytic Cladosporium velox and their relationship with its host plant Tinospora cordifolia	Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, 143005, India	6	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84992193616&doi=10.1016%2fj.iej.2016.10.018&partnerID=40&md5=7292a499c5990b223407684a774bd5c2
133	Single-layer & double-layer microwave absorbers based on Co-Ti substituted barium hexaferrites for application in X and Ku-band	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84995769211&doi=10.1557%2fjmr.2016.411&partnerID=40&md5=c8f317d0aef9744be05292bea4bcfd65
134	Role of telomeres and associated maintenance genes in Type 2 Diabetes Mellitus: A review	Human Genetics Research Group, Department of Biotechnology, Shri Mata Vaishno Devi University KatraJ&K 182320, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; National Centre of Applied Human Genetics, School of Life Sciences, Jawaharlal Nehru University, New Delhi, 110067, India	8	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84995633300&doi=10.1016%2fi.diabres.2016.10.015&partnerID=40&md5=e55e16b19a1c59cbe8a51a7a7f51edaf
135	A novel staggered hybrid SSF approach for efficient conversion of cellulose/hemicellulosic fractions of corncob into ethanol	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Food Science & Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961872518&doi=10.1016%2fi.renene.2016.03.082&partnerID=40&md5=2f9028d371643f94a1a1c3781cbcd883
136	Quantification and assessment of health risk due to ingestion of uranium in groundwater of Jammu district, Jammu & Kashmir, India	Department of Physics, DAV College, Katra Sher Singh, Amritsar, Punjab 143001, India; Department of Physics, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, Punjab 144011, India; Radiological Physics & Advisory Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Central Ground Water Board, North Western Himalayan Region, Jammu (J&K), 180004, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	7	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978164191&doi=10.1007%2fs10967-016-4933-z&partnerID=40&md5=4ccbd446ee1e254e7e57e5ef4dc40ae7
137	Investigation of microwave absorption and DC electrical properties of Mn2+ and Ti4+ substituted SrMnxTixFe(12-2x)O19 ferrite	Department of Electronics and Communication Engineering, Rayat Bahra Institute of Engineering and Nanotechnology, Hoshiarpur, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84969540983&doi=10.1016%2fj.jallcom.2016.04.205&partnerID=40&md5=5f42b8db4479247fc63c9831a9a9e211
138	Dust ion-acoustic cnoidal waves in a plasma with two temperature superthermal electrons	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84990020908&doi=10.1063%2f1.4964140&partnerID=40&md5=dcd5452f73130fbab285c487bba33bd6
139	Evolution of the Microstructure by High Velocity Impacts of Particles by Cold Spray	Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India; Shaheed Bhagat Singh College of Engineering & Technology, Ferozepur, Punjab, India; Amritsar College of Engineering & Technology, Amritsar, Punjab, India; ASB Industries Inc., Barberton, OH, United States	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84929600709&doi=10.1080%2f10426914.2014.994766&partnerID=40&md5=b2dd257493914c13545f7bc2ff4569a6
140	Rational Design of Small Peptides for Optimal Inhibition of Cyclooxygenase-2: Development of a Highly Effective Anti-Inflammatory Agent	UGC Sponsored Centre for Advanced Studies, Department of Chemistry, Amritsar, 143005, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84968817563&doi=10.1021%2facs.jmedchem.6b00134&partnerID=40&md5=a0520e5240abd997832bd5d8a589f7a1
141	Nanoparticle Surface Specific Adsorption of Zein and Its Self-assembled Behavior of Nanocubes Formation in Relation to On-Off SERS: Understanding Morphology Control of Protein Aggregates	Department of Chemistry and Biochemistry, Wilfrid Laurier University, Science Building, 75 University Avenue West, Waterloo, ON N2L 3C5, Canada; Nanotechnology Research Laboratory, College of North Atlantic, Labrador City, Newfoundland, A2V 2K7, Canada; Department of Chemistry, UGC Sponsored Center for Advanced Studies-1, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961369721&doi=10.1021%2facs.jafc.5b05495&partnerID=40&md5=97c0e49a43211b0c05a19093151fa34c
142	First Report on Crystal Engineering of Hg(II) Halides with Fully Substituted 3,4-Pyridinedicarboxamides: Generation of Two-Dimensional Coordination Polymers and Linear Zig-Zag Chains of Mercury Metal Ions	Department of Chemistry, UGC Sponsored Centre of Advanced Studies-I, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84954056256&doi=10.1021%2facs.cgd.5b00989&partnerID=40&md5=b0d0d73caf88d381df6e819f0cbcd5f0
143	Third-order nonlinear optical response and ultrafast dynamics of tetraoxa[22]porphyrin(2.1.2.1)s	Department of Chemistry, Indian Institute of Technology, Kanpur, 208016, India; Department of Chemistry, UGC, Centre of Advance Study-II, Guru Nanak Dev University, Amritsar, 143005, India	5	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991503359&doi=10.1039%2fc6tc03239g&partnerID=40&md5=8878699e23de15e666f5776642bf21fd
144	A quantitative appraisal of the binding interactions between an anionic dye, Alizarin Red S, and alkyloxypyridinium surfactants: A detailed micellization, spectroscopic and electrochemical study	Department of Chemistry, UGC-Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957563366&doi=10.1039%2fc5sm02667a&partnerID=40&md5=6a997f62e443abde0d702c799655beed

145	Survey on multifocus image fusion techniques	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006797858&doi=10.1109%2fICEEOT.2016.7754918&partnerID=40&md5=3e7669db103f9547a7331a5a3da43c0b
146	Four weeks of supplementation with isolated soy protein attenuates exercise-induced muscle damage and enhances muscle recovery in well trained athletes: A randomized trial	Department of Sports Medicine and Physiotherapy, Guru Nanak Dev University, Amritsar, Punjab, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991730476&doi=10.5812%2fasjsm.33528&partnerID=40&md5=fc8b028f966989bc675b060c1c9aab12
147	Development and Characterization of Cr3C2–NiCr Coated Superalloy by Novel Cold Spray Process	Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India; Shaheed Bhagat Singh College of Engineering & Technology, Ferozepur, Punjab, India; ASB Industries Inc., Barberton, OH, United States; Amritsar College of Engineering & Technology, Amritsar, Punjab, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84923572147&doi=10.1080%2f10426914.2014.973599&partnerID=40&md5=8d29c11c7da3d08cc6066011c51ec6de
148	Self-nanoemulsifying drug delivery system of docosahexanoic acid: development, in vitro, in vivo characterization	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978410075&doi=10.3109%2f03639045.2015.1107089&partnerID=40&md5=8c439984e0a00284dace37cadb44cec3
149	Simultaneous all-optical half-adder, half-subtractor, comparator, and decoder based on nonlinear effects harnessing in highly nonlinear fibers	Guru Nanak Dev University, Department of Electronics Technology, Amritsar, Punjab, 143005, India; Punjabi University, Department of Electronics and Communication Engineering, Patiala, Punjab, 147002, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979986112&doi=10.1117%2f1.OE.55.7.077104&partnerID=40&md5=9129f2d03b5a8505dbbea8a053451ac2
150	The polysialic acid mimetics 5-nonyloxytryptamine and vinorelbine facilitate nervous system repair	Department of Biotechnology, Guru Nanak Dev University, GT Road, Amritsar, 143005, India; Center for Molecular Neurobiology, University Hospital Hamburg-Eppendorf, Martinistrasse 52, Hamburg, D-20246, Germany; Keck Center for Collaborative Neurosciences, Rutgers University, Piscataway, NJ 08854, United States; Center for Neuroscience, Shantou University Medical College, Shantou, Guangdong, 515041, China	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84975795879&doi=10.1038%2fsrep26927&partnerID=40&md5=0781a7f7b1fa7421ca6604d79468b11d
151	Exploring the thermodynamics and conformational aspects of nicotinic acid binding with bovine serum albumin: A detailed calorimetric, spectroscopic and molecular docking study	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964689309&doi=10.1039%2fc5ra28028a&partnerID=40&md5=2aa7672b7a334eb59828079811c5227c
152	Extraction of earthworm from soil by different sampling methods: a review	Department of Zoology, Khalsa College, Amritsar, Punjab, India; Department of Botanical and Environmental Science, Guru Nanak Dev University, Amritsar, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84940177199&doi=10.1007%2fs10668-015-9703-5&partnerID=40&md5=923fa80cef9467f1afccb9f4b07a52d3
153	Estrogen attenuates renal IRI through PPAR- γ agonism in rats	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84969506936&doi=10.1016%2fj.jss.2016.02.038&partnerID=40&md5=0b60bf6750fa43a4eb052bff0cef4734
154	An Approach for the Selective Detection of Nitric Oxide in Biological Systems: An in vitro and in vivo Perspective	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, 143005, India	6	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84977829679&doi=10.1002%2fasia.201501333&partnerID=40&md5=5a24bc65e7a044de6042e50c14e6ad76
155	Partial Characterization of Tamarind (Tamarindus indica L.) Kernel Starch Oxidized at Different Levels of Sodium Hypochlorite	Department of Food Science and Technology, Guru Nanak Dev University, G.T. Road, Amritsar, 143005, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84950157393&doi=10.1080%2f10942912.2015.1038722&partnerID=40&md5=b113dc7b3827c0aae07074c331b0d475
156	Supramolecular ensemble of PBI derivative and copper nanoparticles: A light harvesting antenna for photocatalytic C(sp ²)-H functionalization	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84992747028&doi=10.1039%2fc6gc01728b&partnerID=40&md5=004eda791fa62bdfab920d957d56d59d
157	Indole-BODIPY: A "turn-on " chemosensor for Hg ²⁺ with application in live cell imaging	Department of Chemistry, UGC-Centre of Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84986276732&doi=10.1039%2fc6ra17695j&partnerID=40&md5=a4a245379baee8066901c76962962a40
158	Broadband enhancement in absorption cross-section of N719 dye using different anisotropic shaped single crystalline silver nanoparticles	Department of Physics, Guru Nanak Dev University, Amritsar, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, India; Technical Physics Division, Bhabha Atomic Research Centre, Mumbai, India; National Physical Laboratory, New Delhi, India	7	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84970945979&doi=10.1039%2fc6ra08893g&partnerID=40&md5=53da51a9f764468c857619c3c977084d
159	Sensitiveness of light absorption for self-focusing at laser-plasma interaction with weakly relativistic and ponderomotive regime	Department of Physics, Devchand College, Arjunnagar Dist, Kolhapur, 591 237, India; Department of Physics, Shivaji University, Kolhapur, 416 004, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143 005, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991710886&doi=10.1017%2fS026303461600063X&partnerID=40&md5=cbc6835a5614bc54e37c74abd8b49e6b

160	Binding studies of caffeine and theophylline to bovine serum albumin: Calorimetric and spectroscopic approach	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84987905573&doi=10.1016%2fj.molliq.2016.09.034&partnerID=40&md5=dbb5decccd561ff4e31f345a420a0fd88
161	Cholinesterase inhibitor (Altenueene) from an endophytic fungus <i>Alternaria alternata</i> : optimization, purification and characterization	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	6	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979980449&doi=10.1111%2fjam.13192&partnerID=40&md5=c6169936903456d9f77d3acc8b9ac190
162	Single step purification of asparaginase from endophytic bacteria <i>Pseudomonas oryzae</i> exhibiting high potential to reduce acrylamide in processed potato chips	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84974725418&doi=10.1016%2fj.fbp.2016.05.010&partnerID=40&md5=2a471d4bcfd5439494fad8a228427466
163	Effect of surfactant head group on micellization and morphological transitions in drug-Surfactant catanionic mixture: A multi-technique approach	Department of Chemistry, UGC-Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962285053&doi=10.1016%2fj.colsurfa.2016.03.058&partnerID=40&md5=c8b61eb7de7c4da86611e44ab2f2179
164	Pioglitazone ameliorates renal ischemia reperfusion injury through NMDA receptor antagonism in rats	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84969776450&doi=10.1007%2fs11010-016-2718-x&partnerID=40&md5=e63c9af08894b27be1d499be0a6947eb
165	Effect of gelatinized-retrograded and extruded starches on characteristics of cookies, muffins and noodles	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966704768&doi=10.1007%2fs13197-016-2234-8&partnerID=40&md5=521a37e137018dc1bdc049d7524c42c9
166	Ratiometric fluorophore for quantification of iodide under physiological conditions: Applications in urine analysis and live cell imaging	Department of Chemistry, Guru Nanak Dev University, Amritsar 143005 Punjab, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar 143005 Punjab, India	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964004981&doi=10.1039%2fc6ob00373g&partnerID=40&md5=0bd28654eb58d594cc70bc0750fb17a5
167	Thermal, optical and structural properties of Dy3+ doped sodium aluminophosphate glasses	Department of Physics, DAV College, Amritsar, Punjab 143001, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962003749&doi=10.1016%2fj.optmat.2016.01.051&partnerID=40&md5=9388e06f2790450f6e0bcd5a0e0a7e45
168	Peak to average power ratio reduction in OFDM system using hybrid technique	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84955574402&doi=10.1016%2fj.jileo.2015.12.105&partnerID=40&md5=6cd05206ad512b9a8c5d3dfc0abb8465
169	Quinazolines as apoptosis inducers and inhibitors: A review of patent literature	Department of Pharmaceutical Chemistry, ISF College of Pharmacy, Moga, Punjab, India; School of Pharmaceutical sciences, Shoolini University Himachal Pradesh, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; VMS College of Pharmacy Punjab, India	5	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84958951726&doi=10.2174%2f1574892811666151218151506&partnerID=40&md5=d3bc7e19185fe76716051f68c1f60088
170	Emulsifying and Foaming Properties of Protein Concentrates Prepared from Cowpea and Bambara Bean Using Different Drying Methods	Faculty of Science, University of Maroua, PO Box 814, Maroua, Cameroon; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84948809190&doi=10.1080%2f10942912.2015.1023399&partnerID=40&md5=be13398ef85c28c1cbd80f10b52c6ee1
171	Roles of galectin-7 in cancer	Department of Human Genetics, Guru Nanak Dev University, Amritsar, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84960453134&doi=10.7314%2fajpjp.2016.17.2.455&partnerID=40&md5=29f82e0754cfa29a843e0e832318c1ce
172	Nanomolar Cu2+Detection in Water Based on Disassembly of AIEgen: Applications in Blood Serum, Cell Imaging and Complex Logic Circuits	Department of Chemistry, UGC Centre for advanced studies –II, Guru Nanak Dev University, Amritsar, 143005, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, 143005, India; Department of RIC, IK Gujral Punjab Technical University, Kapurthala, 144601, India; Department of Chemical Sciences, IK Gujral Punjab Technical University, Kapurthala, 144601, India	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85013256696&doi=10.1002%2fslct.201601497&partnerID=40&md5=7cefa ceaf9d8830ccf3410a83c2afd15
173	Protein and starch characteristics of milled rice from different cultivars affected by transplantation date	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Plant Breeding and Genetics, Punjab Agricultural University, Ludhiana, 141004, India	6	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84982811724&doi=10.1007%2fs13197-016-2293-x&partnerID=40&md5=e6ea35cbca654bdfcf6b4d9906505ca5
174	Effect of tartarate and citrate based food additives on the micellar properties of sodium dodecylsulfate for prospective use as food emulsifier	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84930960211&doi=10.1016%2fj.foodchem.2015.05.130&partnerID=40&md5=c79fbb8fe789d582326dce7bf24247f0

175	Dynamics of a prey-generalized predator system with disease in prey and gestation delay for predator	IKG-Punjab Technical University, Kapurthala, Punjab 144601, India; Department of Applied Sciences, Khalsa College of Engineering and Technology, Amritsar, Punjab 143001, India; Department of Applied Sciences, ABV-Indian Institute of Information Technology and Management, Gwalior, MP 474015, India; Department of Applied Sciences, B. B. S. B. Engineering College, Fatehgarh Sahib, Punjab 140406, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061065875&doi=10.1007%2fs40808-016-0096-8&partnerID=40&md5=b300a5f41fea03da66abaf08c6ef820b
176	Effect of calcination temperature on the structural, optical and magnetic properties of pure and Fe-doped ZnO nanoparticles	Department of Electronics and Communication Engineering, Desh Bhagat University, Mandi Gobindgarh, India; Chitkara University (Punjab Campus), Chandigarh, India; Department of Electronics and Communication Engineering, GNDU Regional Campus, Gurdaspur, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979055725&doi=10.1515%2fmsp-2016-0059&partnerID=40&md5=cb5d4f3ade5dc8c81de004975e2cb76e
177	Thermal energy conversion and temperature-dependent dynamic hysteresis analysis for Ba 0.85 Ca 0.15 Ti 0.9-x Fe x Zr 0.1 O 3 ceramics	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; School of Engineering, Indian Institute of Technology Mandi, Himachal Pradesh, 175 001, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016781919&doi=10.1016%2fj.jascer.2015.12.005&partnerID=40&md5=f6d995855b041dddff81e79114f7dc80
178	Organocatalyzed asymmetric Michael addition by an efficient bifunctional carbohydrate-thiourea hybrid with mechanistic DFT analysis	Hygeia Centre of Excellence in Pharmaceutical Sciences (CEPS), GGS Indraprastha University, Sec. 16-C, Dwarka, New Delhi, 110078, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85004190396&doi=10.1039%2fc6ob02158a&partnerID=40&md5=8a0e4842952324518465401168d8e623
179	Purification and characterization of a new antifungal compound 10-(2,2-dimethyl-cyclohexyl)-6,9-dihydroxy-4,9-dimethyl-dec-2-enoic Acid Methyl Ester from Streptomyces hydrogenans Strain DH16	Department of Microbiology, Guru Nanak Dev University, Amritsar, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84980328158&doi=10.3389%2ffmicb.2016.01004&partnerID=40&md5=2f302b026f373718d72efb4e135edf84
180	Pd/Fe3O4 supported on nitrogen-doped reduced graphene oxide for room-temperature isocyanide insertion reactions	Department of Chemistry, U.G.C. Centre of Advance Studies in Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemical Engineering, Pohang University of Science and Technology (POSTECH), Pohang, 790-784, South Korea; Department of Chemistry, Pohang University of Science and Technology (POSTECH), Pohang, 790-784, South Korea; Department of Chemistry, DDU Gorakhpur University, Gorakhpur, 273 009, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84973277852&doi=10.1039%2fc5cv01973g&partnerID=40&md5=b50af69e125d9234425dd5518d1d529f
181	2,4-diarylpyrano[3,2-c]chromen-5(4H)-ones as antiproliferative agents: Design, synthesis and biological evaluation	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Indian Institute of Integrative Medicine, Jammu, 180001, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84969522616&doi=10.1248%2fcpb.c15-00958&partnerID=40&md5=a8b6d1db4ba8289c18c5b48626ea14ce
182	Influence of organic solvents and temperature on the micellization of conventional and gemini surfactants: a conductometric study	Department of Chemistry, Guru Nanak Dev University, Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84958525060&doi=10.1080%2f00319104.2016.1139711&partnerID=40&md5=df31450bd1958e2a0ac328c016f90c81
183	A cloud-based seizure alert system for epileptic patients that uses higher-order statistics	Guru Nanak Dev University, Amritsar, India; IK Gujral Punjab Technical University, Kaurthala, India; Guru Nanak Dev University Regional Campus, Gurdaspur, India; Beant College of Engineering and Technology, Gurdaspur, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84985000523&doi=10.1109%2fmcse.2016.82&partnerID=40&md5=8087cf9eeecff293fbc963b9e3a1642
184	GC-MS studies reveal stimulated pesticide detoxification by brassinolide application in Brassica juncea L. plants	Plant Stress Physiology Lab, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962821220&doi=10.1007%2fs11356-016-6650-0&partnerID=40&md5=21fea5e501afd594e0ddf4d20f122829
185	MX/G/1 unreliable retrial queue with option of additional service and Bernoulli vacation	Department of Mathematics, Guru Nanak Dev University, Amritsar, India; Department of Mathematics, Indian Institute of Technology, Roorkee, India; Department of Mathematics, M.L.U. DAV College, Phagwara, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962164840&doi=10.1016%2fj.asei.2015.05.006&partnerID=40&md5=75f14f8e24cea167182fcf9f10328912
186	Noise cancellation using adaptive filtering in ECG signals: Application to biotelemetry	Guru Nanak Dev University G.N.D.U, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964862692&doi=10.14257%2fjijbsbt.2016.8.2.22&partnerID=40&md5=0a086c218f33660f4fcb48971ead9fc
187	Radiation losses in microwave Ku region by conducting pyrrole/barium titanate and barium hexaferrite based nanocomposites	Department of Physics, Lovely Professional University, Phagwara, 144411, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84982838787&doi=10.1016%2fj.immm.2016.07.058&partnerID=40&md5=84faf6ff2891b5fff36f674f1917ec6c
188	Obliquely propagating dust ion-acoustic solitary waves and double layers in multicomponent plasmas	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85008698328&doi=10.1063%2f1.4972542&partnerID=40&md5=ae5fe49edc8dacfe62d7921aff943f5b

189	Modulatory effects of Cassia fistula fruits against free radicals and genotoxicity of mutagens	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2016	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84995505511&doi=10.1016%2fj.fct.2016.10.027&partnerID=40&md5=7755ad0c0b352acfcdd7e26e0e63356a
190	Association of aldose reductase gene (AKR1B1) polymorphism with diabetic retinopathy	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84987933683&doi=10.1016%2fj.diabres.2016.08.019&partnerID=40&md5=3c70029bf42d6609133eb13cf4f88d55
191	Leishmania donovani-induced increase in macrophage Bcl-2 favors parasite survival	Cell Death and Differentiation Research Laboratory, National Institute of Immunology, New Delhi, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India; Department of Medicine, Institute of Medical Sciences, Infectious Disease Research Laboratory, Banaras Hindu University, Varanasi, India; Central Animal Facility, Indian Institute of Science, Bangalore, India	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84997482113&doi=10.3389%2ffimmu.2016.00456&partnerID=40&md5=a84b543f21a931737d2414b360ee165d
192	Structural and dielectric properties of co-substituted M-type barium hexaferrite	D.A.V. Institute of Engineering and Technology, Jalandhar, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988038706&doi=10.1007%2fs10854-016-5092-2&partnerID=40&md5=2254c31203e632dfa08a028c401cd648
193	Texture Evaluation of Cooked Rice Prepared from Japanese Cultivars Using Two-Bite Instrumental Test and Electromyography	National Food Research Institute, National Agriculture and Food Research Organization, 2-1-12 Kannondai, Tsukuba, Ibaraki, 305-8642, Japan; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab, 143 005, India; NARO Institute of Crop Science, 2-1-18 Kannondai, Tsukuba, Ibaraki, 305-8518, Japan	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84958260304&doi=10.1111%2fjtxs.12172&partnerID=40&md5=1de377012e9d85108c01d08c77ea392f
194	Dielectric and impedance studies of (Pb1-xCax)(Fe0.5Nb0.5)O3 dielectric ceramics	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Southern Federal University, Rostov-on-Don, Russian Federation	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84956678469&doi=10.1007%2fs10854-015-3854-x&partnerID=40&md5=f9a010db8c14b97c2a367f5990f6d570
195	Structural, magnetic and electronic properties of iron doped barium strontium titanate	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Solid State Physics Division, Bhabha Atomic Research Centre, Trombay, Mumbai, India; UGC-DAE Consortium for Scientific Research, B.A.R.C., R-5 Shed, Mumbai, 400 085, India; Inter-University Accelerator Centre, ArunaAsaf Ali Marg, New Delhi, 110 067, India; Applied Sciences Department, PEC University of Technology, Chandigarh, 160012, India; National Synchrotron Radiation Research Center (NSRRC), Hsinchu, 30076, Taiwan; Department of Mechanical Engineering, National Taipei University of Technology, Taipei, 10608, Taiwan; Department of Physics, Tamkang University, Tamsui, 25137, Taiwan; Institute of Physics, Academia Sinica, Taipei, 11529, Taiwan	13	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84999232358&doi=10.1039%2fc6ra21458d&partnerID=40&md5=00287c9a06a11301452b28d5c59d6220
196	Effect of alkyl chain functionalization of ionic liquid surfactants on the complexation and self-assembling behavior of polyampholyte gelatin in aqueous medium	Department of Chemistry, UGC-Centre for Advance Studies-II, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988651205&doi=10.1039%2fc6cp04664a&partnerID=40&md5=53d4b095510e1edc2d32eedc6c5b70ac
197	Investigation of Microwave Absorptive Behavior of La-Na Substituted M-Type Co-Zr Barium Hexaferrites in X-Band	DAV Institute of Engineering and Technology, Jalandhar, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978696331&doi=10.1007%2fs10948-016-3607-y&partnerID=40&md5=a7b715a9e0711f362250e0f10bb02a52
198	3-Butenyl isothiocyanate: a hydrolytic product of glucosinolate as a potential cytotoxic agent against human cancer cell lines	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Natural Plant Products Division, CSIR-Institute of Himalayan Bioresource and Technology, Palampur, Himachal Pradesh 176061, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	7	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84983425343&doi=10.1007%2fs13197-016-2316-7&partnerID=40&md5=2e7627faf4460895e45841e2ec5aeae
199	[2 + 2] Cycloaddition Reactions of Butadienyl Ketene with 1,4-Diazabuta-1,3-dienes: Synthesis of Functionalized Butadienyl-4-iminomethyl-azetidin-2-ones and Butenylidene-butadienyl-[2,2'-biazetidine]-4,4'-diones	Department of Applied Sciences, Punjab Technical University, Kapurthala, Punjab 144603, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84940702827&doi=10.1002%2fjhet.2465&partnerID=40&md5=9e32da01e4bae05abaebdd7f22b3cfe7
200	Volumetric and UV absorption studies on understanding the solvation behavior of polyhydroxy solutes in l-ascorbic acid(aq) solutions at T = (288.15 to 318.15) K	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84937923244&doi=10.1016%2fj.foodchem.2015.07.072&partnerID=40&md5=c49fcb6b5e45f7d4b3eee8f389e2352

201	Self–aggregation Behavior of Dialkyl Imidazolium based Ionic Liquids in Aqueous Medium: Effect of Alkyl Chain Length	Department of Chemistry, UGC-Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988606846&doi=10.1002%2fslct.201600301&partnerID=40&md5=89e3502a96a6b016ea6cc072a27ed6bf
202	Investigations on micellization and surface properties of sodium dodecyl sulfate in aqueous solutions of triflupromazine hydrochloride at different temperatures	Department of Chemistry, UGC-Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961615533&doi=10.1016%2fj.molliq.2016.02.036&partnerID=40&md5=88a9e6329a45376e8cd3ba4889fc6879
203	Physicochemical and pasting properties of unleavened wheat flat bread (Chapatti) as affected by addition of pulse flour	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Food Science and Technology, University of Kashmir, Srinagar, J & K 190 006, India; Amity Institute of Biotechnology, Amity University Rajasthan, Jaipur, 302021, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85111683273&doi=10.1080%2f23311932.2015.1124486&partnerID=40&md5=20238e53d1b7fc99708b68b24dd01205
204	To inquire the effects of doping on current characteristics of fullerene molecular junction device	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84975072524&doi=10.1016%2fj.matpr.2016.04.157&partnerID=40&md5=081d700cf6c1468568f5b05ed8c7ec06
205	Thermally stable ferrocene- α -cyanostilbenes as efficient materials for second order nonlinear optical polarizability	Department of Chemistry, UGC Centre of Advance Study-II, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, University of Leuven, Celestijnenlaan 200D, Leuven, B-3001, Belgium	6	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84971298345&doi=10.1039%2fc6ra10084h&partnerID=40&md5=e84c8c4161202fb8524f75299aec133f
206	Value added processing and utilization of pineapple by-products	Departamento de Farmacia, Pontificia Universidad Catolica de Chile, Av. Vicuña Mackenna, Macul, Santiago de, 4860, Chile; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017418801&doi=10.1002%2f9781118967355.ch11&partnerID=40&md5=5c19b683559ef7af0a04114498988660
207	Reactive oxygen species generating system and brassinosteroids are linked to salt stress adaptation mechanisms in rice	Department of Biotechnology Guru Nanak Dev University, Amritsar, Punjab, India; Université de Montpellier, UMR DIADE, Montpellier, France	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85008168551&doi=10.1080%2f15592324.2016.1247136&partnerID=40&md5=b162ba2a9a4d5a75a08c5ea8a4f49ab
208	Conventional and modified hydrodistillation method for the extraction of glucosinolate hydrolytic products: a comparative account	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Natural Plant Products Division, CSIR-Institute of Himalayan Bioresource and Technology, Palampur, Himachal Pradesh 176061, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84975701790&doi=10.1186%2fa0064-016-2021-z&partnerID=40&md5=92202db768f11042040e346b6badafd9
209	Transport in fullerene device coupled to Cu, Ag and Au electrodes	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84986220518&doi=10.1080%2f00268976.2016.1226442&partnerID=40&md5=b182798b10db9ce2525de489b7c60b54
210	Low fire M-phase lithium based dielectric ceramics for microwave applications: A review (I)	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84994236040&doi=10.1080%2f00150193.2016.1233027&partnerID=40&md5=6e17ee1f4055da0c0e2df09b864c34dd
211	Effect of gold electrode crystallographic orientations on charge transport through aromatic molecular junctions	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84976276905&doi=10.1080%2f00268976.2016.1197431&partnerID=40&md5=dd231618518c58310e4d95c870b20bc9
212	Efficiency enhancement in dye sensitized solar cells using dual function mesoporous silica as scatterer and back recombination inhibitor	Material Science Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Thin Film Devices Section, Technical Physics Division, Bhabha Atomic Research Centre, Mumbai, 400 085, India	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84976598936&doi=10.1016%2fj.cplett.2016.06.071&partnerID=40&md5=8d9659828bf17a7c92e040b2fa0971a6
213	2,4-Dinitrophenol-Catalyzed α -C(sp) ³ -H and C(sp) ³ -H Bond Functionalization of Cyclic Amines and Alkynes: Highly Regio-/Diastereoselective Synthesis of α -Alkynyl-3-Amino-2-Oxindoles	Department of Chemistry, U.G.C. Centre of Advance Studies in Chemistry, Guru Nanak Dev University Amritsar, Amritsar, 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978138781&doi=10.1002%2fchem.201601222&partnerID=40&md5=5ad3bfb8e98ebca7c59a04da04e44274
214	Viscosities of some saccharides in aqueous solutions of phosphate-based inorganic salts	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India	3	2016	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84973909655&doi=10.1021%2facs.iced.5b00845&partnerID=40&md5=5f56e060919dfeca5bf26e38918b70d9
215	The peptidyl-prolyl cis-trans isomerase activity of the wheat cyclophilin, TaCypA-1, is essential for inducing thermotolerance in Escherichia coli	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Plant Molecular Biology, University of Delhi South Campus, New Delhi, 110021, India; Stress Physiology and Molecular Biology Laboratory, School of Life Sciences, Jawaharlal Nehru University, New Delhi, 110067, India	7	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84975840952&doi=10.1016%2fbi.biopen.2015.11.003&partnerID=40&md5=d6b253aad12e962360b35a06e1fb5e4f

216	Theoretical modeling of indoor radon concentration and its validation through measurements in South-East Haryana, India	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Radiological Physics and Advisory Division, Bhabha Atomic Research Centre, Mumbai, 400085, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957552198&doi=10.1016%2fi.enyman.2016.02.003&partnerID=40&md5=896a67e73a888ca52b8284f91214ed76
217	Non-parametric Analysis of Technical Efficiency of Public Sector Banks (PSBs) in India	Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962388377&doi=10.1177%2f0972150915619811&partnerID=40&md5=8ffe91b597bee29a0c2ee4d795f32f08
218	Pentacenequinone-stabilized silver nanoparticles: A reusable catalyst for the diels-alder [4 + 2] cycloaddition reactions	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-1, Guru Nanak Dev University, Amritsar, Punjab, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957605830&doi=10.1021%2facs.joc.5b02495&partnerID=40&md5=f56c2204bab07a7326d775a599bc754f
219	Association of genetic variants in INS (rs689), INSR (rs1799816) and PP1G.G (rs1799999) with type 2 diabetes (T2D): a case-control study in three ethnic groups from North-West India	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab 143 005, India; Diabetic Clinic and Research Institute, 171, Green Avenue, Amritsar, Punjab 143001, India	7	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84955674451&doi=10.1007%2fs00438-015-1099-2&partnerID=40&md5=9c9071f48c0a729bcaccf1643b48ea5f
220	Mesua ferrea linn:- A review of the Indian medical herb	Department of Pharmacy, Manav Bharti University Solan, Village-Laddo, Sultanpur, KumarHatti, Solan, Himachal Pradesh, India; Guru Nanak Dev University, Amritsar, Punjab, India	5	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018158130&doi=10.5530%2fsrcp.2017.1.5&partnerID=40&md5=47a8c6879334049119062fa2dd5c04f0
221	Development of a supramolecular ensemble of an AIEE active hexaphenylbenzene derivative and Ag@Cu2O core-shell NPs: An efficient photocatalytic system for C-H activation	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-1, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84981297981&doi=10.1039%2fc6cc03956a&partnerID=40&md5=71b518ed316317fb3fd09cffc92fda4
222	Probaton of charge transport with chalcogens as linker group for C20 fullerene	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84975081915&doi=10.1016%2fi.matpr.2016.04.008&partnerID=40&md5=4f86d187409f48e4a365776c9cf6dd9e
223	Second harmonic generation of Cosh-Gaussian laser beam in collisional plasma with nonlinear absorption	Guru Nanak Dev University College, Kapurthala, Punjab, India; Department of Physics, National Institute of Technology, Jalandhar, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991000959&doi=10.1016%2fi.optcom.2016.06.047&partnerID=40&md5=c4fc821f6bbd1958d1ed689209aab15c
224	Cytogenetic analysis in couples with recurrent miscarriages: a retrospective study from Punjab, north India	Department of Human Genetics, Guru Nanak Dev University, Amritsar, 143 005, India; Hartej Hospital and Nursing Home, Amritsar, 143 005, India; Beri Maternity Hospital, Southend Beri Fertility and IVF, Amritsar, 143 005, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84997190940&doi=10.1007%2fs12041-016-0713-3&partnerID=40&md5=1e0066ab13a6e5296f900ce86668c2d4
225	Pea protease inhibitor inhibits protease activity and development of Bactrocera cucurbitae	Department of Zoology, Guru Nanak Dev University, Amritsar, 143 005, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84994048529&doi=10.1016%2fi.aspen.2016.10.012&partnerID=40&md5=ef13c34219f0f19fe4b64314f453dd14
226	Association of GSTT1 and GSTM1 gene polymorphisms with coronary artery disease in North Indian Punjabi population: A case-control study	Multidisciplinary Research Unit, Government Medical College, Amritsar, Punjab, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84971524725&doi=10.1136%2fpostgradmedj-2015-133836&partnerID=40&md5=1fd9b0dfc76419b1494e7ff9e7f9f8c5
227	A study of power management techniques for Internet of Things (IoT)	Computer Engineering and Technology Department, Guru Nanak Dev University, Amritsar, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006812930&doi=10.1109%2fiCEEOT.2016.7754992&partnerID=40&md5=d3aeb2981bcfe5a63498bb251a672a83
228	A 2D electrocardiogram data compression method using a sample entropy-based complexity sorting approach	Department of Electronics and Communication Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84993984949&doi=10.1016%2fi.compeleceng.2016.10.012&partnerID=40&md5=27406016ce4bdadb2c2a6ac6d9cf58fc7
229	Influence of polyhydroxy compounds on the micellization behaviour of cetyltrimethylammonium bromide: Conductance and microcalorimetric investigations	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988530192&doi=10.1016%2fi.molliq.2016.09.037&partnerID=40&md5=8193423b2c61b41064510bc993e21ba2
230	Ion acoustic kinetic Alfvén rogue waves in two temperature electrons superthermal plasmas	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84987905572&doi=10.1007%2fs10509-016-2917-7&partnerID=40&md5=93cb05c6c1a0b8afdd56adfc634eee08
231	Fish liver and gill cells as cytogenotoxic indicators in assessment of water quality	PG Department of Zoology, Khalsa College, Amritsar, Punjab 143005, India; Aquatic Biology Laboratory, Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; C-50, Guru Nanak Dev University Campus, Amritsar, Punjab, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84975250753&doi=10.1007%2fs11356-016-7080-8&partnerID=40&md5=39b09ed9da90e47e74dcae937eae95a7
232	Recent advances in synthesis and antifungal activity of 1,3,5-triazines	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; College of Life Sciences and Biotechnology, Korea University, Seoul, 136-701, South Korea; Department of Chemistry, Punjab Agricultural University, Ludhiana, 141 004, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84983765428&doi=10.2174%2f1570179412666150905002356&partnerID=40&md5=ffd2ce57834434bb987362545076fd1c

233	Towards the design of a secure data outsourcing using fragmentation and secret sharing scheme	Computer Section, Guru Nanak Dev University, Amritsar, India; I. K. Gujral Punjab Technical University, Kapurthala, Punjab, India; Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus, Gurdaspur, India; Department of Computer Science and Engineering, Beant College of Engineering and Technology, Gurdaspur, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84958044135&doi=10.1080%2f19393555.2015.1134732&partnerID=40&md5=b65b6bdefc8ed01400c70e329e077ff7
234	Unprecedented reaction of ninhydrin with ethyl cyanoacetate and diethyl malonate on ultrasonic irradiation	Department of Chemistry, University of Jammu, Jammu, 180 006, India; X-ray Crystallography Group, Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; X-ray Crystallography Group, Department of Physics and Electronics, University of Jammu, Jammu, 180 006, India	7	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84952874629&doi=10.1016%2fj.tet.2015.11.022&partnerID=40&md5=e0d30edbcfa412416728e1fb13b20ed0
235	Water dispersed fluorescent organic aggregates for the picomolar detection of ClO4- in water, soil and blood serum and the attogram detection of ClO4- in the solid state by a contact mode method	Department of Chemistry, UGC Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84981161277&doi=10.1039%2fc6tc01891b&partnerID=40&md5=d857f06d1e0d9d491116478a01a9b0ac
236	Detailed study of interactions between eosin yellow and gemini pyridinium surfactants	Department of Chemistry, UGC-Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979955402&doi=10.1039%2fc6ra12056c&partnerID=40&md5=68967b6af3767970477b0dbedd5b6bf3
237	Oxidative Stress: An Effective Prognostic Tool for an Early Detection of Cardiovascular Disease in Menopausal Women	Department of Biochemistry, Sri Guru Ram das Institute of Medical Sciences and Research, Amritsar, Punjab, India; Department of Biochemistry, Government Medical College, Amritsar, Punjab, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Medicine, Sri Guru Ram das Institute of Medical Sciences and Research, Amritsar, Punjab, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962868910&doi=10.1155%2f2016%2f6157605&partnerID=40&md5=01d83dcb2122689060193335c6f835b5
238	Partially purified Glycine max proteinase inhibitors: Potential bioactive compounds against tobacco cutworm, <i>Spodoptera litura</i> (Fabricius, 1775) (Lepidoptera: Noctuidae)	Insect Physiology Laboratory, Department of Zoology (DST-FIST Sponsored Department), Guru Nanak Dev University, Amritsar, Punjab, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962844468&doi=10.3906%2fzoo-1508-20&partnerID=40&md5=5da627d629c9c62d314b85ce3671d883
239	Nonlinear absorption in tetrathia[22]porphyrin(2.1.2.1)s: Visualizing strong reverse saturable absorption at non-resonant excitation	Department of Chemistry, UGC Centre of Advance Studies-II, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemistry, Indian Institute of Technology, Kanpur, 208616, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84960158693&doi=10.1039%2fc5ra22861a&partnerID=40&md5=6dc0bc84cdc318e392890c8ab3d8bc77
240	A method for rapid purification and evaluation of catalytically distinct lignocellulolytic glycosyl hydrolases from thermotolerant fungus <i>Acrophialophora</i> sp.	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028246959&doi=10.1016%2fj.renene.2016.02.011&partnerID=40&md5=3cfa5bee74c5c28b69ff60866d4fa422
241	Genotoxicity reduction in bagasse waste of sugar industry by earthworm technology	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; PG Department of Zoology, Khalsa College, Amritsar, Punjab, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979742558&doi=10.1186%2fca40064-016-2882-1&partnerID=40&md5=0ed287890c3fb5fc56335046a9a98489
242	Topoisomerase I and II inhibitors: A patent review	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Pharmaceutical Chemistry, ISF College of Pharmacy, Moga, India; Sri Sai College of Pharmacy, Manawala Amritsar, Punjab, India	7	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85004090214&doi=10.2174%2f0929866523666160720095940&partnerID=40&md5=756f7a5799be5a0a44291ceded4c47b3
243	Study of thermodynamic properties of sodium dodecyl sulphate in aqueous solutions of alkoxyalkanols at different temperatures	Department of Chemistry, Dr B R Ambedkar National Institute of Technology, Jalandhar, Punjab, 144 011, India; Department of Chemistry, GNDU, Amritsar, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84975068658&doi=10.1016%2fj.molliq.2016.06.027&partnerID=40&md5=89fb2ab69d4ca40a13b86bf7897c14e4
244	A β -mannanase from <i>Paenibacillus</i> sp.: Optimization of production and its possible prebiotic potential	Department of Biotechnology, GGSDS College, Chandigarh, India; Department of Biotechnology, Panjab University, Chandigarh, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84945162128&doi=10.1002%2fbab.1419&partnerID=40&md5=7539b9638af39f8dc6c4c0c983eb539e

245	Impact of neural cell adhesion molecule deletion on regeneration after mouse spinal cord injury	Zentrum für Molekulare Neurobiologie, Universitätskrankenhaus Hamburg-Eppendorf, Universität Hamburg, Hamburg, Germany; Department of Biotechnology, Guru Nanak Dev University, Punjab, India; Center for Neuroscience, Shantou University Medical College, 22 Xin Ling Road, Shantou, 515041, China; Keck Center for Collaborative Neuroscience and Department of Cell Biology and Neuroscience, Rutgers University, Piscataway, NJ 08854, United States; Institute for Molecular and Behavioral Neuroscience, University Hospital Cologne, Köln, Germany; Experimental Neurophysiology, German Center for Neurodegenerative Diseases, Ludwig-Erhard-Allee 2, Bonn, D-53175, Germany	5	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84977560149&doi=10.1111%2fein.13271&partnerID=40&md5=8d8e7ee3c21c86f75bb1e5430d53684f
246	Naphthoflavones as antiproliferative agents: Design, synthesis and biological evaluation	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Cancer Pharmacology Division, Indian Institute of Integrative Medicine (CSIR), Canal Road, Jammu, 180001, India; Graduate Institute of Biomedical Informatics, Taipei Medical University11031, Taiwan	7	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84973622616&doi=10.2174%2f1871520616666160204113536&partnerID=40&md5=7383f265fbdcd5052d79235e53a90bc9
247	Magnetic-sublevel-independent magic wavelengths: Application to Rb and Cs atoms	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Theoretical Physics Division, Physical Research Laboratory, Navrangpura, Ahmedabad, 380009, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84993964525&doi=10.1103%2fPhysRevA.93.063422&partnerID=40&md5=83caa2283f1dc060eddd495b7d5358e3
248	A review of the recent developments in synthetic anti-breast cancer agents	School of Chemistry and Physics, University of KwaZulu Natal, P/Bag X54001, Westville, Durban, 4000, South Africa; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966359546&doi=10.2174%2f1871520616666151120122120&partnerID=40&md5=cd49df46f798463a7a555c3abadbc3ea
249	Structural, dielectric and magnetic properties of (Pb1-xCax)(Fe0.5Nb0.5)O3 solid solution ceramics	Guru Nanak Dev UniversityPunjab, India; Southern Federal University, Rostov-on-Don, Russian Federation	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957547911&doi=10.1016%2fj.jmmm.2016.01.030&partnerID=40&md5=2006374a6f27c585534e0f267b0fce46
250	Fuzzy logic based modified adaptive modulation implementation for performance enhancement in ofdm systems	Guru Nanak Dev University Regional Campus Fattu Dyinga, Kapurthala, Punjab, 14606, India	1	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85000692688&doi=10.5815%2fijisa.2016.05.07&partnerID=40&md5=b20bcfbac561dd494d23df8380428b20
251	Schottky–Richardson, Poole–Frenkel, and Space Charge Limited Current Mechanisms in M-Type Sr(MnTi)xFe(12-2x)O19 Ferrite	Department of Electronics and Communication Engineering, Rayat Bahra Institute of Engineering and Nanotechnology, Hoshiarpur, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; High Voltage Laboratory, Wroclaw University of Technology, Poland	5	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84993876496&doi=10.1111%2fjace.14390&partnerID=40&md5=8313f198e4f191198578871d181ef8b0
252	Synthesis, characterization and second-order nonlinear optical behaviour of ferrocene-diketopyrrolopyrrole dyads: The effect of alkene: Vs. alkyne linkers	Department of Chemistry, UGC Centre of Advanced Study-II, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, University of Leuven, Celestijnenlaan 200D, Leuven, B-3001, Belgium	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84992411639&doi=10.1039%2fc6tc03350d&partnerID=40&md5=6a78d5872f2d70ff200def1b59770a5f
253	Cu(II) mediated Kinugasa reactions of α,β -unsaturated nitrones: A facile, diastereoselective route to 3-(hydroxy/bromo)methyl-1-aryl-4-(-styryl)azetidin-2-ones	I. K. Gujral Punjab Technical University, Kapurthala, Punjab, 144603, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84989848414&doi=10.1039%2fc6ni01747a&partnerID=40&md5=f85582696d983de146ce76f918947ff5
254	Empirical Analysis of Web Attacks	Lyallpur Khalsa College, Jalandhar, India; Guru Nanak Dev University, Amritsar, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988557199&doi=10.1016%2fj.procs.2016.02.057&partnerID=40&md5=022cbee529f80316298232731021668e
255	Synthesis and immunopotentiating activity of novel isoxazoline functionalized coumarins	Medicinal Chemistry Division, Indian Institute of Integrative Medicine, Jammu, India; Department of Chemistry, Jamia Hamdard University, New Delhi, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, India; Department of Pharmaceutical Chemistry, Jamia Hamdard University, New Delhi, India; Vaccine Immunology Laboratory, NPC Division, Indian Institute of Chemical Technology, Hyderabad, India	13	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979518665&doi=10.1016%2fj.ejmech.2016.07.026&partnerID=40&md5=01615ed891375b2fe98a88ca05798987
256	Oviposition response of melon fruit fly, <i>Bactrocera cucurbitae</i> (Coquillett) to different phenolic compounds	Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84973917434&partnerID=40&md5=43fba89f0977a0f8fb8831a5c655b162
257	Assessment of soil enzyme activities based on soil samples from the beas river bed, India using multivariate techniques	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020440174&partnerID=40&md5=e5eba7dd2afb8aa6bd870d0929c60192

258	Influence of head group on the interactional behavior of cationic surface active ionic liquids with pluronic F108 in aqueous medium	Department of Chemistry, UGC - Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979738811&doi=10.1016%2fmolliq.2016.07.106&partnerID=40&md5=a4f6fc38c03562008fbb82b344552bad
259	Amino-functionalized mesoporous MCM-41: An efficient adsorbent for the removal of chromium (III) ions from aqueous solution	Department of Chemistry, Center for Advanced Studies, Guru Nanak Dev University, Amritsar, India; Department of Botanical and Environmental Science, Guru Nanak Dev University, Amritsar, India; Department of Chemistry, Manav Rachna International University, Faridabad, India	5	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84987680704&doi=10.2166%2fagua.2016.118&partnerID=40&md5=7423025895079411b6b85f81c0c9b43a
260	A cascable all-optical half-subtractor based on cross-modulation effects in a single highly nonlinear fiber (HNLF)	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; Department of Electronics and Communication Engineering, Punjabi University, Patiala, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84981240973&doi=10.1007%2fs11082-016-0692-x&partnerID=40&md5=c86051697332ef50e169797151689ec8
261	Maternal MTHFR polymorphism (677 C–T) and risk of Down’s syndrome child: meta-analysis	Department of Human Genetics, Guru Nanak Dev University, Amritsar, 143 005, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978842601&doi=10.1007%2fs12041-016-0657-7&partnerID=40&md5=43f3467ef82087cbef4a054cd70baf5e
262	Determination of magic wavelengths for the 7s S1/2 2 -7p P3/2,1/2 2 transitions in Fr DETERMINATION OF MAGIC WAVELENGTHS FOR THE ... SUKHJIT SINGH, B. K. SAHOO, AND BINDIYA ARORA	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Atomic, Molecular and Optical Physics Division, Physical Research Laboratory, Navrangpura, Ahmedabad, 380009, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988689850&doi=10.1103%2fPhysRevA.94.023418&partnerID=40&md5=09d6fb5b6dd3736ff01ae9d6dd8e1eb0
263	Solvation behavior of monosaccharides in aqueous protic ionic liquid solutions: Volumetric, calorimetric and NMR spectroscopic studies	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemistry, Indian Institute of Technology Madras, Chennai, 600 036, India	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962157640&doi=10.1016%2fliquid.2016.03.016&partnerID=40&md5=86bd1dc8320a3b00deab1a4448562529
264	Analysis of ANKK1 (rs1800497) and DRD2 (rs1079597, rs1800498) variants in five ethnic groups from Punjab, North-West India	Department of Anthropology, Panjab University, Chandigarh, 160014, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	6	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961875786&doi=10.1016%2fj.gene.2016.03.009&partnerID=40&md5=d a020627b2b3156a58562470470385e3
265	Effect of different doses of nitrogen on protein profiling, pasting and quality attributes of rice from different cultivars	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Plant Breeding & Genetics, Punjab Agricultural University, Ludhiana, Punjab 141004, India	7	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84973643516&doi=10.1007%2fs13197-016-2230-z&partnerID=40&md5=e5e7a543358afb61be67b088d8aa2de5
266	Solvation behavior of some nucleic acid bases and nucleosides in water and in aqueous guanidine hydrochloride solutions: Viscometric, calorimetric and spectroscopic approach	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84951796985&doi=10.1016%2fj.jct.2015.11.029&partnerID=40&md5=f8b25d6f92483a710850958e1c1e4855
267	Confirmation of TTC8 as a disease gene for nonsyndromic autosomal recessive retinitis pigmentosa (RP51)	Department of Human Genetics, Guru Nanak Dev University, Amritsar, India; Institute for Medical and Human Genetics, Charité-Universitätsmedizin Berlin, Augustenburger Platz 1, Berlin, 13353, Germany; Berlin Brandenburg Center for Regenerative Therapies (BCRT), Charité-Universitätsmedizin Berlin, Berlin, Germany; Max Planck Institute for Molecular Genetics, Berlin, Germany; Department of Mathematics and Computer Science, Institute for Bioinformatics, Freie Universität Berlin, Berlin, Germany	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84940184602&doi=10.1111%2fcge.12644&partnerID=40&md5=69dd48ec4951969c29d99e82ffaa15f3
268	Analyzing the effect of difficulty level of a course on students performance prediction using data mining	Electronics and Communication Engineering, SSiet, Derabassi, District Mohali, PB, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964422443&doi=10.1109%2fngct.2015.7375222&partnerID=40&md5=ad59e2a52351fd66a03b373227c2ba11
269	Pseudomonas: The versatile and adaptive metabolic network	Department of Microbiology, Guru Nanak Dev University, Amritsar, 143001, India; Department of Microbiology, Punjab Agricultural University, Ludhiana, 141004, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85008950037&doi=10.1007%2f978-3-319-31198-2_3&partnerID=40&md5=77cdb1a3db9533b86c90437d516ae940
270	An optimized task duplication based schedulingin parallel system	Department Of Computer Science, Guru Nanak Dev University, Amritsar- Punjab, India	1	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85000427896&doi=10.5815%2fijisa.2016.08.04&partnerID=40&md5=a5c66602abb070fe66402eb1f39bc90c
271	Analysis of single server finite queueing model with reneging	Department of Mathematics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Mathematics, Indian Institute of Technology, Roorkee, 247667, India; Department of Mathematics, M.L.U. DAV College, Phagwara, 144402, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84989955351&doi=10.1504%2fijmOR.2016.077558&partnerID=40&md5=cf598cc2924eaa2aeffee166cec73d44

272	A facile and chemoselective synthesis of 1,4-benzodiazepin-2-ones and dienyl thiazolidin-4-ones	Department of Applied Sciences, I. K. Gujral Punjab Technical University, Kapurthala, Punjab, 144603, India; Sphaera Pharma Pvt. Ltd, Plot 32, Sec-5, IMT Manesar, Gurgaon Haryana, 122051, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	6	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84976431437&doi=10.1039%2fc6ra10021j&partnerID=40&md5=7da74ead6d170faffe5c5dd4864214d6
273	Synthesis and structures of 5-methoxy-salicylaldehyde thiosemicarbazones of copper(II): Molecular spectroscopy, ESI-mass studies and antimicrobial activity	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemistry, Keene State College, Keene, NH 03435, United States	7	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84974602613&doi=10.1016%2fj.poly.2015.12.057&partnerID=40&md5=2e681cc7acda609d72480396e737f8c2
274	Vinorelbine and epirubicin share common features with polysialic acid and modulate neuronal and glial functions	Zentrum für Molekulare Neurobiologie Hamburg, Universitätsklinikum Hamburg Eppendorf, Hamburg, Germany; Department of Biotechnology, Guru Nanak Dev University, GT Road, Amritsar, 143005, India; Fraunhofer Institute for Molecular Biology and Applied Ecology ScreeningPort (Fraunhofer-IME SP), Hamburg, Germany; DoD Biotechnology High Performance Computing Software Applications Institute, Telemedicine and Advanced Technology Research Center, US Army Medical Research and Materiel Command, Fort Detrick, MD, United States; Keck Center for Collaborative Neuroscience, Department of Cell Biology and Neuroscience, Rutgers University, Piscataway, NJ, United States; Center for Neuroscience, Shantou University Medical College, Shantou, Guangdong, China; Neurobiology-Neurodegeneration and Repair Laboratory (N-NRL), National Eye Institute National Institutes of Health, Bethesda, MD 20892, United States	8	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84951908873&doi=10.1111%2fjnc.13383&partnerID=40&md5=2b98b6da6a6ed26ccf53a609eaab8912
275	Evaluation of the wound healing potential of isoquercetin-based cream on scald burn injury in rats	Pharmacology Research Laboratory, Department of Pharmacology Khalsa College of Pharmacy, Amritsar, India; Department of Pharmaceutical Analysis Khalsa College of Pharmacy, Amritsar, India; Department of Biochemistry Khalsa College of Pharmacy and Technology Amritsar, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073601477&doi=10.1186%2fs41038-016-0032-1&partnerID=40&md5=ca173b4534b474aff1c69c96f84cb357
276	Profiling and production of hemicellulases by thermophilic fungus <i>Malbranchea flava</i> and the role of xylanases in improved bioconversion of pretreated lignocellulosics to ethanol	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	4	2016	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017479758&doi=10.1007%2fs13205-015-0325-2&partnerID=40&md5=ccab240cdd666aad740e0d0c0c4ae3f5
277	Effect of the transverse magnetic field on spatiotemporal dynamics of quadruple Gaussian laser beam in plasma in weakly relativistic and ponderomotive regime	Department of Applied Sciences, DAV Institute of Engineering and Technology, Jalandhar, 144008, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Applied Sciences, Lyallpur Khalsa College of Engineering, Jalandhar, 144001, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006765787&doi=10.1063%2f1.4972087&partnerID=40&md5=4bfd812713c2be873168f9760ae4a371
278	Effect of Acidified Methanol Modification on Physico Chemical Properties of Black-Eyed Pea (<i>Vigna unguiculata</i>) Starch	National Dairy Research Institute, Karnal, Haryana, India; Guru Nanak Dev University, Amritsar, Punjab, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978715874&doi=10.1080%2f10942912.2016.1171236&partnerID=40&md5=4b5461a69ea5b6e49bc7b4cf7d896a3e
279	Cross layer weight based on demand routing protocol for mobile ad hoc networks	Department of Computer Science, Khalsa College for Women, Amritsar PTU, Kapurthala, Punjab, 143001, India; Department of Computer Science and Engineering, SBS State Technical Campus, Moga Road, Ferozepur, Punjab, 152004, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964903016&doi=10.1504%2fIJCNDS.2016.073408&partnerID=40&md5=91792e73c9cde458d651f54abd522466
280	Web usage mining-current trends and future challenges	Dept. of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, 143005, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006812205&doi=10.1109%2fICEEOT.2016.7754915&partnerID=40&md5=38821083e56df63ba0f9d5afe46ad0de
281	Synthesis, characterization and photocatalytic activity of visible-light-driven reduced graphene oxide–CeO ₂ nanocomposite	Laboratory for Sensors and Physics Education, Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Semiconductor Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84983604741&doi=10.1007%2fs12648-016-0861-6&partnerID=40&md5=7ae2d3e7e2d56cae8036d2e6a67a8f4
282	Larvicidal and growth inhibitory effects of endophytic <i>Aspergillus niger</i> on a polyphagous pest, <i>Spodoptera litura</i>	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84990989640&doi=10.1007%2fs12600-016-0541-2&partnerID=40&md5=fca1b5f0e8b0534b1397dec1f0edd08d

283	Taxonomic demarcation of <i>Arundo donax</i> L. and <i>Phragmites karka</i> (Retz.) Trin. ex Steud. (Arundinoideae, Poaceae) from phytolith signatures	Plant Systematics and Biodiversity Laboratory, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84980322408&doi=10.1016%2fi.flora.2016.07.011&partnerID=40&md5=b2440183e3d2ce51edcc602093ca23dc
284	Excitation induced spectroscopic study and quenching effect in cerium samarium codoped lithium aluminoborate glasses	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966312482&doi=10.1016%2fi.physb.2016.04.020&partnerID=40&md5=3ca2c70ce8429a9d4cf28e83aeae6f5
285	Function points-based resource prediction in cloud computing	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur (Punjab), India	1	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84975037780&doi=10.1002%2fcp.3296&partnerID=40&md5=9d335df65eb26b01b32c66bffdac42e0
286	Comparing magic wavelengths for the 6s2S1/2-6p 2P1/2;3/2 transitions of Cs using circularly and linearly polarized light	Department of Physics, Guru Nanak Dev University, Punjab, Amritsar, 143005, India; Theoretical Physics Division, Physical Research Laboratory, Navrangpura, Ahmedabad, 380009, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978296441&doi=10.1088%2f0953-4075%2f49%2f14%2f145005&partnerID=40&md5=c4ba6f69ff57b1ef351d0b39b8eaaf5f
287	Mast cell stabilizers obviate high fat diet-induced renal dysfunction in rats	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India; Department of Pharmacology, Khalsa College of Pharmacy, Amritsar, India; Department of Pathology and Laboratory Medicine, Faculty of Medicine, University of Ottawa, Ottawa, Canada; Department of Veterinary Anatomy, Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, India	7	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961746421&doi=10.1016%2fi.ejphar.2016.02.066&partnerID=40&md5=721a0b94f0f3cd687d931d9b00c87a98
288	Complex permittivity, permeability and microwave absorbing properties of Co-Ti substituted strontium hexaferrite	Guru Nanak Dev University, Amritsar, Punjab, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84968680161&doi=10.1515%2fmsp-2016-0008&partnerID=40&md5=9c5936e4c3d8a609fd77a0b01fdfe656
289	Paclitaxel loaded nanoliposomes in thermosensitive hydrogel: A dual approach for sustained and localized delivery	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India; PCTE Institute of Pharmacy, Punjab College of Technical Education, Ludhiana, 141001, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84958957126&doi=10.2174%2f1871520615666150807103910&partnerID=40&md5=085dd3e0b97d9061d58f88f3efff6bd6
290	Synthesis of mesoporous material SBA-3 for adsorption of dye congo red	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84955194768&doi=10.1080%2f19443994.2014.985730&partnerID=40&md5=3bfc22648f0cf0382584309df9d40704
291	Antioxidative defense responses and activation of phenolic compounds in <i>Brassica juncea</i> plants exposed to cadmium stress	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Quality Control and Quality Assurance Division, Indian Institute of Integrative Medicine, CSIR, Jammu and Kashmir, India	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018490541&partnerID=40&md5=a4a4e9bb213dca2f586aa2de5a9325e4
292	Black hole attack detection in MANET using mobile trust points with clustering	Department of Computer Science and Engineering, Guru Nanak Dev University, Amritsar, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85009480743&doi=10.1007%2f978-981-10-3433-6_68&partnerID=40&md5=85fa3bf76146fd80a49199ae1b2904ab
293	Organocatalytic enantioselective synthesis of C3 functionalized indole derivatives	Department of Chemistry, U.G.C. Centre of Advance Studies in Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, DAV University, Jalandhar, 144012, India; Department of Chemistry, Indian Institute of Technology Ropar, Nangal Road, Rupnagar, 140001, India	5	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84995466969&doi=10.1016%2fi.tet.2016.10.037&partnerID=40&md5=821027c06b4aee036aa4330b65c5decf
294	Sugar signalling in plants: A novel mechanism for drought stress management	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Punjab, India; Department of Zoology, Guru Nanak Dev University, Punjab, India; Department of Botany, Punjabi University, Punjab, India	12	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984822378&doi=10.1002%2f9781119054450.ch19&partnerID=40&md5=a851778b1a7d22fd4e9cca5b742c66dd
295	Modulating the mixed micellization of CTAB and an ionic liquid 1-hexadecyl-3-methylimidazolium bromide via varying physical states of ionic liquid	Department of Chemistry, Dr B. R. Ambedkar National Institute of Technology, Jalandhar, 144011, India; Department of Chemistry, UGC-centre for Advance Studies - II, Guru Nanak Dev University, Amritsar, 143005, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966297174&doi=10.1039%2fc6ra05330k&partnerID=40&md5=b233eda9fe71afd860aae0ae4dcc0b7c
296	Genetic differentiation and population structure of five ethnic groups of Punjab (North-West India)	Department of Anthropology, Panjab University, Chandigarh, 160014, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84981200564&doi=10.1007%2fs00438-016-1239-3&partnerID=40&md5=7c0758c3200e07b5bf9f0dce5bdde132
297	Effect of cobalt(II) chloride hexahydrate on some human cancer cell lines	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botany, DAV University, Jalandhar, Punjab 144012, India	7	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84977111508&doi=10.1186%2fs40064-016-2405-0&partnerID=40&md5=4682e0bd493011f7f1033ffcbcc0f4a0
298	Relative analysis of AODV & DSDV routing protocols for MANET based on NS2	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	5	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006817640&doi=10.1109%2fICEEOT.2016.7755355&partnerID=40&md5=f2edc889f4e180f8f3d0c9b8009f0e9e

299	Comparative Transcriptome Analysis of Chinary, Assamica and Cambod tea (<i>Camellia sinensis</i>) Types during Development and Seasonal Variation using RNA-seq Technology	Plant Metabolic Engineering Laboratory, CSIR, Institute of Himalayan Bioresource Technology, Palampur, 176061, India; Academy of Scientific and Innovative Research, New Delhi, India; Studio of Computational Biology and Bioinformatics, CSIR, Institute of Himalayan Bioresource Technology, Palampur, 176061, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India; Food and Nutraceutical Division, CSIR, Institute of Himalayan Bioresource Technology, Palampur, 176061, India; Center of Innovative and Applied Bioprocessing, Mohali, 160071, India	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84995639466&doi=10.1038%2fsrep37244&partnerID=40&md5=cf9a0e2b993c197e47c59ba1a0a91af8
300	Antitumor activity of aqueous leaf extracts of different cultivars of <i>Chrysanthemum morifolium</i> R. using potato disc tumor assay	Department of Botany, BBK DAV College for women, Amritsar, Punjab 143001, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84997483388&partnerID=40&md5=d802145a5b96ea685f5a239dba83e80e
301	Catalyst-Free Synthesis of 3-Aryl-3-hydroxy-2-oxindole Derivatives by Using Water as the Solvent: Experimental and DFT Studies	Department of Chemistry, U.G.C. Centre of Advance Studies in Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, DAV University, Jalandhar, Punjab 144012, India	5	2016	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84987680037&doi=10.1002%2faioc.201600346&partnerID=40&md5=cb20997a5cc2ca4eb45356e0677b83d2
302	Effect of temperature on dielectric and electrical properties of Co–Zr doped barium hexaferrites prepared by sol–gel method	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Chemistry, Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, Punjab, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84976346928&doi=10.1007%2fs10854-016-5242-6&partnerID=40&md5=9d8f3c4f02de421309a77d4ef8f8bf4f
303	Assessment of DNA damage as an index of genetic toxicity in welding microenvironments among iron-based industries	Department of Zoology, Khalsa College, Amritsar, Punjab, 143104, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84989261260&doi=10.1177%2f0748233715590518&partnerID=40&md5=3291d05e3b08c207469f18857688f52b
304	An integrated approach for Diabetic Retinopathy exudate segmentation by using Genetic Algorithm and Switching Median Filter	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84992121870&doi=10.1109%2fICIVC.2016.7571284&partnerID=40&md5=74e77d96f694285174ad6b05464808ff
305	In vitro evaluation of Brassica sprouts for antioxidant and antiproliferative potential	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Natural Product Chemistry and Process Development Division, CSIR-IHBT, Palampur, 176061, India; Department of Botany, College of basic sciences, CSK Himachal Pradesh Krishi Vishvavidyalaya, Palampur, 176061, India	5	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029752502&doi=10.4172%2fpharmaceutical-sciences.1000160&partnerID=40&md5=b45ab56a64abd6f2f10e8015ef30bfed
306	Alleviation of Cadmium and Mercury Stress by Supplementation of Steroid Hormone to <i>Raphanus sativus</i> Seedlings	Department of Botanical & Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84983049739&doi=10.1007%2fs40011-015-0501-5&partnerID=40&md5=7e45bebea7cc2a6b94b35381a1aeea31
307	Rayleigh-Bénard convection with two-frequency temperature modulation	Department of Mathematics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Mathematics, Panjab University, Chandigarh, 160014, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84963593373&doi=10.1103%2fPhysRevE.93.043111&partnerID=40&md5=d0c499d07d15bee2eea1711bd05c53e7
308	Tandem Aza-Michael and Intramolecular Amidic Ring-Opening Reactions of β -Lactams: A Facile Synthesis of 4-Oxo-4,5-dihydro-1 H -pyrroles from β -Lactam Synthons	Department of Applied Sciences, I K Gujral Punjab Technical University, Kapurthala, Punjab 144603, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84956676040&doi=10.1055%2fs-0035-1560826&partnerID=40&md5=25985fd6292efb3cabf6eb9dd2c7f77e
309	Frequency and Temperature Dependence of Dielectric and Electrical Properties of Sn-Doped Lead Calcium Iron Niobate	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84953352498&doi=10.1007%2fs11664-015-4244-0&partnerID=40&md5=ed72c1acf977dfcaf42ed573ab6c6cf0
310	A survey on Big Data storage strategies	Dept. of Computer Science, Guru Nanak Dev University Regional Campus, Jalandhar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966526078&doi=10.1109%2fICGCIoT.2015.7380473&partnerID=40&md5=9c596f1e556dbf0ff09876a0e645c614
311	SQL injection: Study and augmentation	Dept. of Computer Science, GNDU Regional Campus, Jalandhar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84963966419&doi=10.1109%2fHSPCC.2015.7375006&partnerID=40&md5=a8da3f16c186e5d91458d74aee81a17
312	Design of fullerene-based biomarker for detection of lead impurities	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016814285&doi=10.1016%2fj.ict.2016.11.001&partnerID=40&md5=c3f33a511afa0f55dc654d7fc06d8770

313	Effect of asymmetric molecule–electrode coupling and molecular bias on rectification in molecular junctions	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84995959995&doi=10.1007%2fs00339-016-0559-9&partnerID=40&md5=ca7bbd3d6e9152c41537cad8c39298eb
314	Selective liquefied petroleum gas sensor based on nanocomposites of zinc chromium oxide	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry, University of Manitoba, Winnipeg, MB R3T 2N2, Canada	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84995751514&doi=10.1007%2f10832-016-0056-8&partnerID=40&md5=7645263ea0bb59ea4e8f05380cbe1d82
315	Implicit and explicit solvent models to understand the D(+)-glucose solvation in aqueous protic ionic liquid solution: Volumetric and computational approach	Department of Chemistry, Guru Nanak Dev University Amritsar143005, India; Department of Chemistry, Indian Institute of Technology Madras, Chennai, 600 036, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84982824872&doi=10.1016%2fj.jct.2016.07.051&partnerID=40&md5=b93bd8062b3839e5d92c77ecbce72cf5
316	Analytical review of three latest nature inspired algorithms for scheduling in clouds	Computer Engineering and Technology, GNDU, Amritsar, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006826438&doi=10.1109%2fICEEOT.2016.7755315&partnerID=40&md5=209015b1364b08ef940f3e13c7cb54ab
317	Modulation of physicochemical and spectroscopic properties of l-serine and l-proline by propionate based food preservatives	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964478593&doi=10.1016%2fj.foodchem.2016.04.056&partnerID=40&md5=8961b50325683806362bd6c45a8e2525
318	Performance evaluation of micromachined fabricated multiband horn-shaped slotted patch antenna	Guru Nanak Dev University, Regional Campus Gurdaspur, Punjab, 143521, India; Department of Physics & Electronics, University of Jammu, Jammu, J&K 180006, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979609058&doi=10.1007%2fs10825-016-0872-8&partnerID=40&md5=0b94058d78c66a6d741c37042980db5d
319	Antimicrobial Potential of Callistemon lanceolatus Seed Extract and its Statistical Optimization	Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84968610538&doi=10.1007%2fs12010-016-2099-3&partnerID=40&md5=09211c563fcd38f2d07e89d5e66d57c9
320	Modulation of volumetric properties of d(+)-glucose in aqueous 3-hydroxypropylammonium acetate solutions	Department of Chemistry, Indian Institute of Technology Madras, Chennai, 600 036, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964608756&doi=10.1016%2fj.molliq.2016.04.072&partnerID=40&md5=6c9ca4edb1b1f5c8e48031ec10b4d803
321	Variable coordinating activity of sulfur in silver(I) complexes with thiophene based N1-substituted thiosemicarbazones: First case of thiophenyl-thione sulfur bridging in a dinuclear complex	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemistry, Lovely Professional University, Phagwara, 144402, India; Department of Chemistry, Keene State College, Keene, NH 03435–2001, United States; Department of Chemistry, Howard University, Washington, DC 20059, United States	7	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84977507505&doi=10.1007%2fs12039-016-1097-x&partnerID=40&md5=284a2bf67322d27d6d5effb5b64b2d85
322	Structural, dielectric and electrical analysis of Ba2-x La4 + 2x/3Ti8O24 ceramics system with frequency and temperature	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Academics Office, Punjab Technical University, Kapurthala, Punjab, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964444001&doi=10.1002%2fmop.29882&partnerID=40&md5=074a0a7a4569dc6e7babf6ee096e9269
323	Dust acoustic dromions in a magnetized dusty plasma with superthermal electrons and ions	Department of Physics, Guru Nanak Dev University, Amritsar, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978492599&doi=10.1002%2f2015JA022138&partnerID=40&md5=00006aad17fc6b2d3bec40add9719aed
324	The survival analysis of initial public offerings in India	Department of Commerce and Business Management, DAV University, Jalandhar, India; Department of Commerce, Guru Nanak Dev University, Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040827496&doi=10.1108%2fJAMR-10-2014-0057&partnerID=40&md5=5165469377c4729ff7f768eb10d85876
325	Performance analysis of different neural network models for parameters estimation of coaxial fed 2.4 GHz E-shaped Microstrip patch antenna	Department of Electronics and Communication Engineering, UIET, Panjab University, Chandigarh, India; Department of Electronics and Communication Engineering, GNDU Regional Campus, Sathiala, Amritsar, India; Department of Computer Science and Engineering, GNDU Regional Campus, Sathiala, Amritsar, India; Chandigarh University, Gharuan, Punjab, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966295051&doi=10.1109%2fRAECS.2015.7453398&partnerID=40&md5=9283955f6f115fbfc07a9e4c051830a5
326	3-(benzo[d]thiazol-2-YL)phenol and 4-(benzo[d]thiazol-2-YL)phenol: Crystal Structure Determination, DFT Calculations and Visualizing Intermolecular Interactions Using Hirshfeld Surface Analysis	Department of Chemistry, Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84975263482&doi=10.1080%2f15421406.2015.1107812&partnerID=40&md5=be84fc440ca0d56b1e9ce2377f5b4f41
327	Structural, optical and gas sensing properties of tungsten trioxide thin films and nanoparticles	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988891198&doi=10.1166%2fnnl.2016.2141&partnerID=40&md5=d05fc76f4996ff3b0ee249c2818b139e
328	Association of tumor necrosis factor-alpha 308G/A polymorphism with recurrent miscarriages in women	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, 143 005, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84975087423&doi=10.4103%2fO974-1208.183516&partnerID=40&md5=ff44d99e73421abdb891b3926c7db097

329	Study on DNA damaging effects of 4-nonylphenol using erythrocytes from peripheral circulation, gill and kidney of fish <i>Channa punctatus</i>	Department of Zoology, Guru Nanak Dev University, Amritsar, 143 005, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84963800750&partnerID=40&md5=c00af0cd9b1c77d6457832fee26a39f7
330	Formation and reductive ring opening reactions of indolyl-isoxazolidines: Access to novel natural product analogs and precursors	Bio-Organic and Photochemistry Laboratory, Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143 005, India; Post-Graduate Department of Physics and Electronics, University of Jammu, Jammu Tawi, 180 006, India; Post Graduate Department of Chemistry, Dev Samaj College for Women, Ferozepur, Punjab, 152 002, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143 005, India	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84955189058&doi=10.1016%2fj.tet.2015.12.032&partnerID=40&md5=a801a7fa13f2e28b670609b0653e03ef
331	Fault tolerance techniques and architectures in cloud computing-a comparative analysis	Department of Computer Science and Engg., GNDU Regional Campus, Jalandhar, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966661732&doi=10.1109%2fICGCIOT.2015.7380625&partnerID=40&md5=6cb544c36e153e5d84ee7b083c70e462
332	Effect of short-term sourdough fermentation on wheat protein	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091450096&doi=10.1080%2f23311932.2015.1132983&partnerID=40&md5=e62a7eb6987a9c93584810c4a463feee
333	Influence of organic solvents, head-groups and temperature on the micellization behavior of some cationic surfactants	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143 005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85008448706&partnerID=40&md5=53f9ae3b48fc69e119ac4464cbc2590d
334	Influence of Co-Doping on the structural, optical and magnetic properties of ZnO nanoparticles	Department of Electronics and Communication Engineering, Desh Bhagat University, Mandi Gobindgarh, India; Chitkara University (Punjab Campus), Chandigarh, India; Department of Chemistry, Arni University, Kangra, Himachal Pradesh, India; Department of ECE, GNDU, Regional Campus, Gurdaspur, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84954434503&partnerID=40&md5=acd96ceaa0205435664fdc608f77df03
335	The bioefficacy of crude extracts of <i>Azadirachta indica</i> (Meliaceae) on the survival and development of myiasis-causing larvae of <i>Chrysomya bezziana</i> (Diptera: Calliphoridae)	PG Department of Zoology, Khalsa College, Amritsar, Punjab 143001, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84954369258&doi=10.1007%2fs11250-015-0930-4&partnerID=40&md5=ae8d68cb50f556a7c781e0e217cba62c
336	Silica based Wideband RAMAN - TDFA hybrid amplifier yielding flat gain in S-band	Department of Electronics Technology, GNDU, Amritsar, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84949498650&doi=10.1016%2fj.jileo.2015.10.163&partnerID=40&md5=1e8e53966c15def1ee1ee7999a9e0448
337	Induction of neurotoxicity by organophosphate pesticide chlorpyrifos and modulating role of cow urine	Cytogenetics Laboratory, Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84983021767&doi=10.1186%2fs40064-016-3004-9&partnerID=40&md5=861724d8bfc2ce3dcf50bd8884ea12a5
338	Delineation of attenuation of oxidative stress and mutagenic stress by <i>Murraya exotica</i> L. leaves	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978191696&doi=10.1186%2fs40064-016-2709-0&partnerID=40&md5=06b64d7ab2680d0af9dbccea1d9bd4b8
339	Job scheduling using Ant Colony Optimization in grid environment	Department of Computer Engineering and Technology, GNDU, Amritsar, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006827021&doi=10.1109%2fICEEOT.2016.7755217&partnerID=40&md5=dc703dda79086b054f7a5a3240b63257
340	Factors Affecting Quality of Work Life of Private Taxi Drivers	University Business School, Guru Nanak Dev University, Amritsar, Punjab, India; UGC-Human Resource Development Centre, University Business School, Guru Nanak Dev University, Amritsar, Punjab, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065527389&doi=10.1177%2f0258042X16676669&partnerID=40&md5=ed364a1cde5c07b24a503e41f2e3b344
341	Investigations to explore interactions in (polyhydroxy solute + L-ascorbic acid + H ₂ O) solutions at different temperatures: Calorimetric and viscometric approach	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979643031&doi=10.1016%2fj.jct.2016.07.020&partnerID=40&md5=2b936e69d0efd21dff58b04580416c4
342	Structure of dipole bands in doubly odd Ag 102	Department of Physics, Panjab University, Chandigarh, 160014, India; Department of Physics, GNDU, Amritsar, 143005, India; Department of Physics, University of Kashmir, Srinagar, 190006, India; Department of Nuclear and Atomic Physics, TIFR, Mumbai, 400005, India	14	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84992744191&doi=10.1103%2fPhysRevC.94.044320&partnerID=40&md5=50eb4cc311782fd48e4d707a85713480
343	The theoretical-cum-statistical approach for the investigation of reaction NO ₂ + O(3P) → NO + O ₂ using SCTST and a full anharmonic VPT2 model	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988421310&doi=10.1016%2fj.cplett.2016.08.058&partnerID=40&md5=b7eaf4da065acdd727ce4b1cbdaf2469

344	Movement protein of Cucumber mosaic virus associates with apoplastic ascorbate oxidase	Plant Virology Lab, CSIR-Institute of Himalayan Bioresource Technology, Palampur, Himachal Pradesh, 176061, India; Academy of Scientific and Innovative Research (AcSIR), CSIR-Institute of Himalayan Bioresource Technology (CSIR-IHBT) Campus, Palampur, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Biotechnology, DAV University, Sarmastpur, Jalandhar, Punjab, 144012, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84992052284&doi=10.1371%2fjournal.pone.0163320&partnerID=40&md5=6387efe6efa14a8038879df75d508828
345	The Influence of e-CRM Competitive Advantage on e-CRM Performance in the Indian Banking Industry	University Business School (UBS), Guru Nanak Dev University, Amritsar, Punjab, India; Research Scholar, University Business School (UBS), Guru Nanak Dev University, Amritsar, Punjab, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988569315&doi=10.1002%2fjisc.2079&partnerID=40&md5=2f2f59dead1af8431f7fc7e45b6c8efb
346	Influence of different deposition potential on the structural and optical properties of copper selenide nanowires	Department of Physics, Guru Nanak Dev University, Amritsar, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84974728048&doi=10.1016%2fj.spmi.2016.04.036&partnerID=40&md5=84ebe8cccd3e9317e87db3408d29d5aa
347	Scanning electron microscopic observations of Basic Violet-1 induced changes in the gill morphology of Labeo rohita	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84968561577&doi=10.1007%2fs11356-016-6764-4&partnerID=40&md5=69727526755b330c76c92a35e2c2ffd0
348	Designing of a phytosome dosage form with Tecomella undulata as a novel drug delivery for better utilization	Department of Pharmaceutics, Khalsa College of Pharmacy, Amritsar, India; Department of Pharmaceutical Chemistry, Khalsa College of Pharmacy, Amritsar, India; F and D Executive, Ananta Medicare Pvt Ltd., Sri Ganga Nagar, India; Department of Pharmacognosy, SMT. S. S. Patil College of Pharmacy, Chopda, India; Department of Pharmacognosy, Akal College of Pharmacy, Sangroor, India	5	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979674810&partnerID=40&md5=f4870b8db7a4a0577a4c225eb584a876
349	Triethylammonium salt of dimethyl diphenyldithiophosphates: Single crystal X-ray and DFT analysis	Department of Chemistry, University of Jammu, Jammu, 180 006, India; Department of Chemistry, DAV University, Jalandhar, 144 012, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; X-ray Crystallographic Laboratory, Department of Physics and Electronics, University of Jammu, Jammu, 180 006, India	9	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84976328503&doi=10.1007%2fs12039-016-1083-3&partnerID=40&md5=8b4e7fd39571aab283de1776c2ae8c01
350	Stitching of tyrosine and 10H-acridin-9-one: Turn-ON fluorescence in the narrow pH range 7.4-8.5 and intracellular labelling of cancer cells	Department of Chemistry, UGC Sponsored Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, 143005, India	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966280586&doi=10.1039%2fc5md00534e&partnerID=40&md5=18940b6df296674fb3a0863f4a1ed574
351	Recent advances in meso-alkylidenyl carbaporphyrinoids	Department of Chemistry, Kangwon National University, Chun Cheon, 24341, South Korea; Department of Chemistry, UGC-Center of Advance Studies-II, Guru Nanak Dev University, Amritsar, 143 005, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84959195491&doi=10.1142%2fS1088424616500012&partnerID=40&md5=52331024cf5a3580ed5dbcfa1f861803
352	Spectroscopic and theoretical evaluation of solvent-assisted, cyanide selectivity of chromogenic sensors grounded on mesitylene platform and their biological applications	Department of Chemistry, UGC Sponsored Centre of Advance Studies-I, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Chemistry, Indian Institute of Technology Ropar, Rupnagar, Punjab, 140001, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84947786987&doi=10.1016%2fj.snb.2015.11.026&partnerID=40&md5=6c78feca71dd5e01da1ddf5bdb8a96bd
353	The bioinspired design of a reagent allows the functionalization of α,β -unsaturated carbonyl compounds via the Baylis-Hillman chemistry under ambient conditions	Department of Chemistry, UGC Sponsored Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84958043276&doi=10.1039%2fc5cc08830e&partnerID=40&md5=bbd0300e775ef14495bc6412c5afc6e0
354	The role of torsional motion on the properties of propiolic acid and its H/D isotopic analogs: A density functional study using SCTST and a full anharmonic VPT2 model	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957013635&doi=10.1016%2fj.cplett.2016.01.015&partnerID=40&md5=15d9b8919ed6cd9df18590ad7e9cbcd9
355	Structural variations and molten globule state in arisaema helliborifolium lectin under various treatments as monitored by spectroscopy	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, 143005, India; Interdisciplinary Biotechnology Unit, Aligarh Muslim University, Aligarh, 202002, India	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84959371622&doi=10.2174%2f092986652366615111144026&partnerID=40&md5=72374733f3639b2a683076629116df1e
356	Chemical composition and inhibitory effects of water extract of henna leaves on reactive oxygen species, DNA scission and proliferation of cancer cells	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Akal College of Basic Sciences (Botany), Eternal University, Baru Sahib, Sirmour, Himachal Pradesh 173101, India	7	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047635743&doi=10.17179%2fexcli2016-429&partnerID=40&md5=8106fc089d25e24ef9fcf1b63f998bdf

357	Recent trends and challenges in microwave power dividers	Guru Nanak Dev University-RC, Jalandhar, Punjab 144009(s), India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027053633&doi=10.14257%2fijedc.2016.9.8.19&partnerID=40&md5=bc21a9fa0632980470e71cda12d60c08
358	RSM and ANN-GA experimental design optimization for electrocoagulation removal of chromium	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, PB, India; School of Energy and Environment, Thapar University, Patiala, PB, India; GGS Super Thermal Power Plant, Ropar, PB, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006456793&doi=10.1007%2f978-3-319-39259-2_1&partnerID=40&md5=466085625e809f752bb6398a8786cfa
359	Organocatalytic enantioselective synthesis of N-alkyl/aryl-3-alkyl-pyrrolidine-2,5-dione in brine	Department of Chemistry, UGC Centre of Advance Studies in Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, DAV University, Jalandhar, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84994229383&doi=10.1016%2fj.tetasy.2016.09.004&partnerID=40&md5=dd401bd5c57a3914a317d39dc7f172f0
360	A facile and highly chemoselective synthesis of 1-thia-3: A,6-diaza-benzo [e] azulen-3-ones by 7- exo-dig / trig halocyclizations	Department of Chemical Sciences, I. K. Gujral Punjab Technical University, Kapurthala, Punjab, 144603, India; Drug Discovery Research Centre (DDRC), Translational Health Sciences and Technology Institute (THSTI), Faridabad, 121001, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84994036278&doi=10.1039%2fc6ra23493c&partnerID=40&md5=8592dc58d77f2d993a86b69f1845391b
361	Comparative Study of Silver Nanoparticles Coated and Uncoated NiO–Fe2O3–CaO–SiO2–P2O5 Ferromagnetic Bioactive Ceramics	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India	7	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84993905660&doi=10.1111%2fjace.14389&partnerID=40&md5=e28d3705bb2d1fc20953382ce139df23
362	Empirical Analysis of Web Attacks	Lyallpur Khalsa College, Jalandhar, India; Guru Nanak Dev University, Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84992409629&doi=10.1016%2fj.procs.2016.02.057&partnerID=40&md5=831c1c259b936f95e9f4f000fbebcea
363	Evaluation of antimutagenic and protective effects of Parkinsonia aculeata L. leaves against H2O2 induced damage in pBR322 DNA	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84959167227&doi=10.1007%2fs12298-016-0346-2&partnerID=40&md5=747bf4c61b8c1b47014fb523156d10b5
364	Wave packet construction in three-dimensional quantum billiards: Visualizing the closed orbit, collapse and revival of wave packets in the cubical billiard	Department of Physics, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Physics, D.A.V. College, Amritsar, 143 005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84955512047&doi=10.1007%2fs12043-015-0959-y&partnerID=40&md5=5c9e8e2a7a5108b79f898ac599901e37
365	Analysis of a queue length aware and latency guaranteed fuzzy-based adaptive resource allocator for WiMAX networks	Computer Science Engineering, UIET, Panjab University, Chandigarh, India; Computer Science Engineering, Guru Nanak Dev University, Amritsar, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84949502735&doi=10.1016%2fj.iijleo.2015.10.087&partnerID=40&md5=331b1eca364bbc28fc81298ea01e5df7
366	Effect of precursors on dielectric properties of Co-Zr doped strontium hexaferrites in 20 Hz–120 MHz frequency range	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Chemistry, Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, Punjab, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006789386&doi=10.1080%2f00150193.2016.1254526&partnerID=40&md5=f820ae8f524fe0678c2b2234bc933805
367	Five-tier barrier anti-phishing scheme using hybrid approach	Department of Computer Science & Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84981506570&doi=10.1080%2f19393555.2016.1215573&partnerID=40&md5=41ad1546af5e483518ce4819158bce03
368	Security of software defined networks: Taxonomic modeling, key components and open research area	Dept. of Computer Science and Electronic Engineering, G.N.D.U, Amritsar, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006754028&doi=10.1109%2fICEEOT.2016.7755214&partnerID=40&md5=27838e77e47e1ef93766000923a5db97
369	Techniques to isolate sybil attack in VANET-A review	Computer Engineering and Technology, G.N.D.U., Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006722237&doi=10.1109%2fICEEOT.2016.7754777&partnerID=40&md5=67f39f01c589d66c2540e0750634b7a9
370	Availing Internet of Things in Industrial decision making - A survey	Dept. of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006700521&doi=10.1109%2fICEEOT.2016.7755075&partnerID=40&md5=35baa2429e20c974f6b11e7cad8d742b
371	Image enhancement of ultrasound images using multifarious denoising filters and GA	Department of Comp. Engg. and Tech., Guru Nanak Dev University, Amritsar, India; Department of Comp. Science, Guru Nanak Dev University, Amritsar, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85007302128&doi=10.1109%2fICACCI.2016.7732411&partnerID=40&md5=642bf0c05b4fa4ff3f1f9226bea5ca4
372	Speed of sound and apparent molar isentropic compression of 1-butyl-3-methylimidazolium bromide in aqueous monosaccharide solutions	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Indian Institute of Technology, Madras, Chennai, 600 036, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84982135200&doi=10.1016%2fj.molliq.2016.08.022&partnerID=40&md5=bed06e0d010be9d898ae5d86f1ca780b

373	Soil 222Rn concentration, CO2 and CH4 flux measurements around the Jwalamukhi area of North-West Himalayas, India	National Center for Research on Earthquake Engineering, NARL, Taipei, 106, Taiwan; Department of Geosciences, National Taiwan University, Taipei, 106, Taiwan; Institute of Earth Sciences, Academia Sinica, Taipei, 115, Taiwan; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	7	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84994524950&doi=10.1093%2frpd%2fncw071&partnerID=40&md5=7d8f009fa0bd5708de6ef8b2ac496cb2
374	Microwave Characterization of Pb0.45Ca0.55(Fe0.5Nb0.5)1-xSrxO3 Multiferroics at X-Band	Department of Electronics and Communication Engineering, Rayat Bahra Institute of Engineering and Nanotechnology, Hoshiarpur, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984636071&doi=10.1007%2fs11664-016-4585-3&partnerID=40&md5=4b9978ae652fa693dd1d44e21291d662
375	Gain evaluation of silica based thulium doped fibre amplifier with triple pump 1050 nm+1400 nm+800 nm configuration for different values of doping concentration and doping radius	Department of ECE GNDU RC, Fattu Dzinga (Sultanpur Lodhi), India; Department of Electronics Technology, GNDU, Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85008712497&partnerID=40&md5=0768285880208ae0fa05bb5c52a1505e
376	Molecular remodeling of the insulin receptor pathway by thiazolidinediones in type 2 diabetes mellitus: A brief review	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84983628025&doi=10.2174%2f0929866523666160703183541&partnerID=40&md5=9c4b06e42c07197430acf6a09db1e74a
377	Physico-chemical effects of caffeine on aqueous solutions of pyrimidine based model compounds of nucleic acids	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	3	2016	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84975297444&doi=10.1016%2fj.molliq.2016.06.039&partnerID=40&md5=b56f7803f27a9599ed0848665d19828b
378	Sweet Potato Flour and Starch	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; Department of Food Science and Technology, Chaudhary Devi Lal University, Haryana, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017410263&doi=10.1002%2f9781118992739.ch11a&partnerID=40&md5=c0e0fa9e972efe126bf8a18fc27a0472
379	Determinants of customer-based brand equity: A study of public and private banks	Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014455755&doi=10.1177%2f0972150916645693&partnerID=40&md5=f5a4607ae5c9bba83d2d7b459a85f43b
380	On best approximation and best coapproximation	Department of Mathematics, Guru Nanak Dev University, Amritsar, 143005, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84985931099&partnerID=40&md5=60e1413312a8cb57aa1d12031325601a
381	Palynological studies of some roadside plants under exposure to traffic stress	Department of Botanical and Environmental Sciences, Guru Nanak Dev University Amritsar, Amritsar, Punjab 143005, India	5	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84930788566&doi=10.1007%2fs10453-015-9394-2&partnerID=40&md5=bafc894e0aa41605f7962efc519f1f9f
382	Precursor route for the synthesis of MgFe2O4 nanoparticles from the thermolysis of magnesium hexapropionatoferrate(III)	Department of Chemistry, UGC Sponsored Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India; Lovely Professional University, Phagwara, 144411, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84977837446&doi=10.1016%2fj.ceramint.2016.02.142&partnerID=40&md5=14cefabbf4061151c79a4c9deb7f2f286
383	Optical properties of stabilized copper nanoparticles	Punjab Technical University, Kapurthala, Punjab, India; Department of Chemistry, DAV College, Amritsar, Punjab, India; Guru Teg Bahadur Khalsa College of IT, Malout, Punjab, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984535307&doi=10.1063%2f1.4946585&partnerID=40&md5=9893a63c90b975760a406003ecf09043
384	Performance analysis of template data security and protection in Biometric Systems	Central University of Jammu, IKGPTU, Jalandhar, India; Beant College of Engg. and Tech., An Institute of Punjab Govt., Gurdaspur, India; Guru Teg Bahadur College, Bhawanigarh, Sangrur, India; Guru Nanak Dev University, Regional Centre, Gurdaspur, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966340046&doi=10.1109%2fRAECS.2015.7453302&partnerID=40&md5=b4f76ac3ff6ade7fd9d27bcf428f055e
385	A compact T-slot multiband Planar Inverted-F Antenna for handheld devices	Guru Nanak Dev University, Punjab, India; Elixir Publications, Chandigarh, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966289656&doi=10.1109%2fRAECS.2015.7453328&partnerID=40&md5=07f7a30b1cb519a5579bdb40e04dd8f6
386	Rational modification of the lead molecule: Enhancement in the anticancer and dihydrofolate reductase inhibitory activity	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84960328329&doi=10.1016%2fj.bmcl.2016.03.015&partnerID=40&md5=0e529ddef6ad031a6a587b2143f6102f
387	"not quenched" aggregates of a triphenylene derivative for the sensitive detection of trinitrotoluene in aqueous medium	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964612373&doi=10.1039%2fc5nj03093e&partnerID=40&md5=c74e894a3a544a14a70f7901a3931b5f
388	Analytical techniques for phytochemicals screening and bioactivities of some coleus species: A review	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964072911&partnerID=40&md5=2eb6946608bde9bd2b6f6cd63f15359d

389	Dipyridamole attenuates ischemia reperfusion induced acute kidney injury through adenosinergic A1 and A2A receptor agonism in rats	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Pharmacology, Khalsa College of Pharmacy, Amritsar, India; Department of Veterinary Anatomy, Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, India; Department of Pathology, Laboratory Medicine, Faculty of Medicine, University of Ottawa, Ottawa, ON, Canada	7	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84960805768&doi=10.1007%2fs00210-015-1206-2&partnerID=40&md5=02484d4f63b252328a6e651049ab9551
390	Calorimetric and isentropic compressibility studies on (saccharide/methyl glycoside/deoxy-derivative + KH2PO4 + H2O) solutions at different temperatures	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84955607163&doi=10.1016%2fj.molliq.2016.01.044&partnerID=40&md5=d8074a916242d0a06e560a20c89a940d
391	Physico-chemical modification induced in PLGA/OMMT nanocomposite films by Li3+ ion beam	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemical Engineering, Thapar University, Patiala, 147004, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84953870846&doi=10.1016%2fj.vacuum.2015.12.018&partnerID=40&md5=edef359739c07275973f08ff5aa9280e
392	Understanding dimensionality of children's food shopping behaviour in retail stores	Khalsa College, Amritsar, India; University Business School, Guru Nanak Dev University, Amritsar, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84954426841&doi=10.1108%2fBFJ-03-2015-0112&partnerID=40&md5=3b5624184d71cdf6c54479103e632b4
393	Design and green synthesis of thieno[2,3-d]pyrimidine analogues as potential antiproliferative agents	Department of Pharmaceutical Chemistry, ISF College of Pharmacy, Moga, Punjab 142001, India; I. K. Gujral Punjab Technical University, Kapurthala, Jalandhar, Punjab 144 601, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India; Department of Pharmaceutical Sciences, University of Nebraska Medical Center, Omaha, NE 68198, United States; National Agri-Food Biotechnology Institute, SAS Nagar, Mohali, Punjab 160071, India; Satiata Research and Anatech Pvt. Ltd., HSIIDC, Barwala, Panchkula, Haryana 134118, India	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85010289901&doi=10.2174%2f11871520616666160817142647&partnerID=40&md5=ceab48eccc57eaa8d920029626a123c4
394	Formation and reductive ring opening reactions of indolyl bicyclic-isoxazolidines-II: 7access to novel natural product analogs	Bio-Organic and Photochemistry Laboratory, Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar 143 005, Punjab, India; Forensic Science Laboratory, Mohali, Punjab, India; Department of Physics & Electronics, University of Jammu, Jammu Tawi, 180 006, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988481322&doi=10.1016%2fj.tetlet.2016.09.011&partnerID=40&md5=441a98b63327ca6c6af21d49f326218b
395	Survey of secure routing protocols in MANET	Department of Computer Science and Engineering, KCET, Amritsar (IKG-PTU, Kapurthala), Amritsar, India; Department of Electronics and Communication Engineering, BCET, Gurdaspur, India; Department of Computer Science and Engineering, GNDU, Amritsar, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84987737777&doi=10.1504%2fIJMNDI.2016.078999&partnerID=40&md5=d6557e3142abfcbe82010ca4d307631a
396	Isolation and characterization of flavanols from Anthocephalus cadamba and evaluation of their antioxidant, antigenotoxic, cytotoxic and COX-2 inhibitory activities	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Natural Product Chemistry and Process Development Division, CSIR-Institute of Himalayan Bioresource Technology, Palampur, India	6	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984924032&doi=10.1016%2fj.bjp.2016.02.007&partnerID=40&md5=4eb6a3bb9633e80774996994ab8518b2
397	Recent progress in nitride-based red emitting phosphors	Department of Physics, Khalsa College Amritsar, Punjab, India	1	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964414576&partnerID=40&md5=43032ed8d41f5c9f1b02e669d1db73cc
398	Surface microstructural features of scales in relation to toxic stress of Basic Violet-1	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84954383450&doi=10.1007%2fs11356-015-5374-x&partnerID=40&md5=adf8668bcdcc3e4a5736da0501598059
399	Influence of Zr substitution on structural, dielectric and magnetic behavior of lead calcium iron niobate	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84954373990&doi=10.1007%2fs10854-015-3811-8&partnerID=40&md5=3e103fd0433678874ceaa5f9673d00d2
400	In vitro production of PLRV and PSTVd-free plants of potato using electrotherapy	P.G. Department of Biotechnology, Khalsa College, Amritsar, Punjab 143002, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006511751&doi=10.1007%2fs12892-016-0028-1&partnerID=40&md5=212d9b0d36663606eb4dca5e2c3d01c9
401	Identical high- K three-quasiparticle rotational bands	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006052183&doi=10.1140%2fepja%2fi2016-16360-2&partnerID=40&md5=cce70eb44e7baf8c0b4e69ae362cebfo

402	On the selection of mobility optimised routing protocol for city scenario using multi interface car in VANET	Department of Computer Science and Engg., GNDU Regional Campus, Jalandhar, India; CSE and ECE Department, GNDU Regional Campus, Jalandhar, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85007298104&doi=10.1109%2fCACCI.2016.7732222&partnerID=40&md5=695c88bee884f5fe79d5bad0f87af40b
403	Performance evaluation of various classifiers for color prediction of rice paddy plant leaf	Guru Nanak Dev University, Department of Electronics Technology, Faculty of Engineering, Amritsar, Punjab, 143005, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-8496883433&doi=10.1117%2f1.JEI.25.6.061403&partnerID=40&md5=438fc1deb5840c4c9d8d77f8fd00b544
404	Innovation and employment: A study of indian manufacturing sector	Punjab School of Economics, Guru Nanak Dev University, Amritsar, Punjab, India	1	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85025840667&doi=10.1177%2f0976399616655032&partnerID=40&md5=c27eba6259d30032156d0683163b5de6
405	Prevalence of type 2 diabetes mellitus among urban sikh population of Amritsar	Department of Sports Medicine and Physiotherapy, Guru Nanak Dev University, Amritsar, Punjab, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84995678325&doi=10.4103%2f0970-0218.193338&partnerID=40&md5=de408fb17d0ce0d3550025f0440f971d
406	Electrical characterization of quasi fullerene junctions formed with different metallic electrodes	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984674631&doi=10.1557%2fjmr.2016.292&partnerID=40&md5=39ab90fee617cf9965a2397138ea6c8d
407	A Novel Di(6-aminouracil-5-yl)-arylmethane Derivative as Fluorescence Ratiometric Chemodosimeter for Mercury Detection in Aqueous Solution	Department of Chemistry, Panjab University, Chandigarh, 160014, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019094541&doi=10.1002%2fslct.201600928&partnerID=40&md5=817c34136d5c97dac2da4f8ad7c41d3b
408	Nonlinear complexity sorting approach for 2D ECG data compression	Dr. B. R. Ambedkar National Institute of Technology, India; Guru Nanak Dev University, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85012960735&doi=10.4018%2f978-1-5225-0660-7.ch001&partnerID=40&md5=a0a93ae7b5cd8131056ba9e60c104a85
409	An enhanced hybrid approach for reducing downtime, cost and power consumption of live VM migration	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84999693708&doi=10.1145%2f2979779.2979851&partnerID=40&md5=69ce4d586401d6b0eda3aa6189cb6e33
410	A novel scheme for data security in cloud computing using quantum cryptography	Department of Computer Science and Engineering, Regional Campus Jalandhar, Guru Nanak Dev UniversityPunjab, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84999670057&doi=10.1145%2f2979779.2979816&partnerID=40&md5=fe2db7369c7f1044236874d900d0e261
411	Characterization and antioxidant activity of oil extract of a gymnosperm - araucaria cunninghamii aiton ex D. don	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85033445981&doi=10.5958%2f0974-360X.2016.00166.9&partnerID=40&md5=dbb0c831937162875a1f61636074e6ec
412	Contribution of maximum entropy principle in the field of queueing theory	Department of Mathematics, Guru Nanak Dev University, Amritsar, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84969974952&doi=10.1080%2f03610926.2013.875574&partnerID=40&md5=9c761d9f99a97bf91b9de2d2685fdd54
413	Bifurcation in Disease Dynamics with Latent Period of Infection and Media Awareness	IKG-Punjab Technical University, Kapurthala, Punjab, 144601, India; Department of Applied Sciences, Khalsa College of Engineering and Technology, Amritsar, Punjab, 43001, India; Department of Applied Sciences, ABV-Indian Institute of Information Technology and Management, Gwalior, M.P., 474015, India; Department of Applied Sciences, B.B.S.B. Engineering College, Fatehgarh Sahib, Punjab, 140406, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84976611494&doi=10.1142%2fS0218127416500978&partnerID=40&md5=11870b9b8aa60f9ae0cba078a3fbf072
414	Effects of substituents and charge on the RCHO...X-Y {X = Cl, Br, I; Y = -CF3, -CF2H, -CFH2, -CN, -CCH, -CCCN; R = -OH, -OCH3, -NH2, -O-} halogen-bonded complexes	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964714918&doi=10.1007%2fs11224-015-0680-y&partnerID=40&md5=cc7d97293549363a1876d732aa74501b
415	O,O'-dimethyl diphenyldithiophosphates of nickel(II) with N-donor ligands	Department of Chemistry, University of Jammu, Jammu, J and K 180006, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	7	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84941686567&doi=10.1007%2fs00706-015-1569-6&partnerID=40&md5=90729413693f328f67fc7d163b3f406a
416	Effect of Cr doping on structural and magnetic properties of ZnS nanoparticles	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984550343&doi=10.1063%2f1.4947731&partnerID=40&md5=5af1c22ed3fb17000bf6aec44bb79852
417	DSC and Raman studies of silver borotellurite glasses	Sensors and Glass Physics Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Chemistry and Process and Recourse Engineering, University of Cantabria, Santander, 39005, Spain	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984548146&doi=10.1063%2f1.4947868&partnerID=40&md5=e9c79b655125827157bbcab31e97c45f

418	Gas sensing behaviour of Cr2O3 and W6+: Cr2O3 nanoparticles towards acetone	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984539737&doi=10.1063%2f1.4947698&partnerID=40&md5=f9b710db45f2511281b352b5a1c052ff
419	Diversification strategies in the changing environment: empirical evidence from Indian firms	Department of Commerce, Guru Nanak Dev University, Amristar, Punjab, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070447778&doi=10.1080%2f19186444.2016.1196858&partnerID=40&md5=9bd7cfda79d678bc74cfa066f599333e
420	The Sojourn from parenteral to oral taxanes using nanocarrier systems: A patent review	University Institute of Pharmaceutical Sciences, Panjab University, Chandigarh, 160014, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; University Institute of Engineering and Technology, Panjab University, Chandigarh, 160014, India; UGC-Centre of Excellence in Applications of Nanomaterials, Nanoparticles and Nanocomposites, Panjab University, Chandigarh, 160014, India	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961730715&doi=10.2174%2f1872211309666151002125430&partnerID=40&md5=d3d8a3681be85eca1b29931c26de950b
421	Dielectric properties of Sn-substituted lead calcium iron niobate	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961119397&doi=10.1007%2fs10854-015-4204-8&partnerID=40&md5=57aeb1deb9cf4e94dcbfb537b6e79d31
422	Dean instability in ferrofluids	Department of Mathematics, Guru Nanak Dev University, Amritsar, 143005, India; Centre for Advanced Study in Mathematics, Panjab University, Chandigarh, 160014, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84938632145&doi=10.1007%2fs11012-015-0252-7&partnerID=40&md5=d6e778c47dcb2a61e1ff00f22c6e0f8a
423	Efficacy of anti-epileptic drugs in the treatment of tumor and its associated epilepsy: An in vitro perspective	Department of Biotechnology, Guru Nanak Dev University, Amritsar, India; Department of Pharmaceutical, Social and Administrative Sciences, D'Youville College School of Pharmacy, Buffalo, NY, United States	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961221343&doi=10.1159%2f000443554&partnerID=40&md5=2229553b561941c5586a08eab35a8ad6
424	Morphometric variations in Distolabrellus veechi (Nematoda: Rhabditidae) collected from different localities in Punjab, India	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85021765371&partnerID=40&md5=28fb732726720127b0ebc2276dfc995
425	Evaluating the effect of doping concentration and doping radius on the gain of silica based Thulium doped fiber amplifier	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Sultanpur Lodhi, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85021668285&doi=10.1109%2f1CRAIE.2016.7939469&partnerID=40&md5=b68cf409afd8cc4b694a05114424cf70
426	Subjective well-being prediction from social networks: A review	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019205449&doi=10.1109%2fPDGC.2016.7913121&partnerID=40&md5=0e8f90bec9c6f9d330d261bc02fbb6e0
427	Vermistabilization of thermal power plant fly ash using Eisenia fetida	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Zoology, Khalsa College Amritsar, Punjab, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014050229&partnerID=40&md5=2b1cbb2ab4f46cbe11a499045011dc29
428	Revisiting export-led growth hypothesis: An empirical study on South Asia	Punjab School of Economics, Guru Nanak Dev University, Amritsar Punjab, 143001, India; Research Fellow, Punjab School of Economics, Guru Nanak Dev University, Amritsar Punjab, 143001, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006515991&partnerID=40&md5=e53c7c7e081713a925c5e8bf63bdb7b4
429	Structural analysis of the erythrocytes of Channa punctatus (Bloch) exposed to mercuric chloride using scanning electron microscopy	Aquatic Biology Laboratory, Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84995611832&doi=10.4194%2f1303-2712-y16_4_13&partnerID=40&md5=2eb0896083aa570e39e6b324285034e9
430	Curcumin and its derivatives as chemotherapeutic agents	Guru Nanak Dev University, Amritsar, Punjab, India; Chandigarh University, Mohalli, Punjab, India	9	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84992297237&partnerID=40&md5=339068697f839c9588Sec7e83067fd0d

431	Design and microwave assisted synthesis of novel 2-phenyl/2-phenylethynyl-3-aryl thiophenes as potent antiproliferative agents	Department of Pharmaceutical Chemistry, ISF College of Pharmacy, Moga, Punjab, 142001, India; I. K. Gujral Punjab Technical University Kapurthala, Jalandhar, Punjab, 144 601, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143 005, India; Department of Pharmaceutical Sciences, University of Nebraska Medical Center, Omaha, NE, United States; Post-Graduate Department of Physics and Electronics, University of Jammu, Jammu Tawi, 180 006, India; Bio-Organic and Photochemistry Laboratory, Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143 005, India; Satiare Research and Anatech Pvt. Ltd., HSIIDC Barwala, Panchkula, Haryana, 134118, India	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991404832&doi=10.1039%2fc6md00256k&partnerID=40&md5=0ab951a4d80563d715bac45f6e6b3b73
432	Hormonal regulation of drought stress in plants	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	7	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984783303&doi=10.1002%2f9781119054450.ch33&partnerID=40&md5=e5cf2717040a18ee30e4e2fdab854678
433	Anatomizing the Impact of High Dielectric Gate Materials on the Charge Transport in Graphene Field Effect Transistors	Guru Nanak Dev University, Amritsar, Punjab, 143005, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84975132511&doi=10.1016%2fj.matpr.2016.04.094&partnerID=40&md5=e61ebef10b1583809f7526c4a8b556a4
434	Physico-chemical and Magnetic Properties of Co-Zr Doped Ba-hexaferrites Using Self Combustion and Urea Assisted Method - A Comparative Study	Department of Chemistry, Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Chemistry, D A V College, Amritsar, Punjab, 143001, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84963548980&doi=10.1016%2fj.matpr.2016.01.128&partnerID=40&md5=e7afb09bd86ce10a3c8a9da34d4d9991
435	Aqueous Ammonia as 'CPCA' in Sol-gel Combustion Method for Nanofabrication of CdFe2O4	Department of Chemistry, Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar (Punjab), 143005, India; Department of Chemistry, D A V College, Amritsar (Punjab), 143001, India; Department of Chemistry, Sri Guru Gobind Singh College, Chandigarh, 160019, India; Department of Chemistry, Baring Union Christian College, Batala (Gurdaspur) (Punjab), 143505, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84963517286&doi=10.1016%2fj.matpr.2016.01.076&partnerID=40&md5=3a89194fcd412fb1de971c6061db55a0
436	Advanced dynamic identity-based authentication protocol using smart card	Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus, Gurdaspur, Punjab, India	1	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962608718&doi=10.1504%2fIJICS.2016.075307&partnerID=40&md5=d3cd3f90cfd88a7ad76be5ef4c5e3b21
437	Characterization of Cucumber mosaic virus isolates from Valeriana jatamansi, a medicinal herb in India	Plant Virus Lab, CSIR-IHBT, Palampur, Himachal Pradesh, India; Department of Chemistry and Biochemistry, CSK HPKV, Palampur, Himachal Pradesh, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, India; Academy of Scientific and Innovative Research (AcSIR), New Delhi, India	5	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962006664&doi=10.4454%2fIJPP.V98i1.066&partnerID=40&md5=2f124c4df4d9f6472e58aa8157ec28b3
438	Adaptive filter design for extraction of fetus ECG signal	Department of Physics, S.L.I.E.T, Longowal, Sangrur, India; Department of Electronics and Communication, G.N.D.U, Amritsar, India; Department of Electronics and Communication, G.N.D.U, Regional Campus, Fattu Dzinga, Amritsar, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84945971372&doi=10.1007%2f978-81-322-2523-2_10&partnerID=40&md5=a7b4a001d1f1f1854a7c3429a3707392
439	Spectroscopic investigations of polycrystalline InxSb20-xAg10Se70 (0 ≤ x ≤ 15) multicomponent chalcogenides	Semiconductors Laboratory, Department of Physics, GND University, Amritsar, 143005, India; Department of Physics, DAV University, Sarmastpur, Jalandhar, 144012, India	6	2016	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85013649462&doi=10.1515%2fmsp-2016-0114&partnerID=40&md5=aa02be603cbbd229c80ea26d4c7d3887
440	Recurrence of human wound myiasis due to chrysomya bezziana villeneuve (Diptera: Calliphoridae) from India: A case report	Department of Zoology, Khalsa College AmritsarPunjab, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85009164627&partnerID=40&md5=d847be4070f504acb80d0e99d81d06bf
441	Digital image watermarking of homomorphic encrypted images: A review	Dept. of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006819373&doi=10.1109%2fICEEOT.2016.7754995&partnerID=40&md5=b7e4814492ab526bfbe823ea75f2bf01
442	Comparative review of coverage algorithms in wireless mobile sensor networks	Department of Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006789735&doi=10.1109%2fICEEOT.2016.7754865&partnerID=40&md5=d7fef3c704f2881e0579d07a2da5a5ba
443	A comparative review of various illumination estimation based color constancy techniques	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006766645&doi=10.1109%2fICCSP.2016.7754184&partnerID=40&md5=132276e2308d756955a7f9b588e19ec7

444	Numerical analysis of terahertz surface plasmon polaritons propagating in a parallel plate configuration	Department of Physics, Guru Nanak Dev University, Punjab- Amritsar, 143005, India; Department of Physics, Indian Institute of Technology Guwahati, Assam, 781039, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85001975585&doi=10.1088%2f1742-6596%2f759%2f1%2f012049&partnerID=40&md5=6c389d789257b39d65fed3eae0bfd909
445	Performance evaluation of the multi-slotted micro-machined patch antenna	Guru Nanak Dev University, Regional Campus GurdaspurPunjab 143521, India; Department of Physics and Electronics, University of JammuJandK 180006, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84997498654&partnerID=40&md5=6b308c5145dbe4c6b54e01fed8687928
446	Imine-linked receptors decorated ZnO-based dye-sensitized solar cells	I.K. Gujral Punjab Technical University, Jalandhar, 140507, India; Department of Electronics and Communication Engineering, GNDU, Regional Campus, Gurdaspur, 143521, India; Department of Electronics and Communication Engineering, Khalsa College of Engineering and Technology, Amritsar, 143001, India; Center for Nanoscience and Nanotechnology, Punjab University, Chandigarh, 160014, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84990829792&doi=10.1007%2fs12034-016-1283-y&partnerID=40&md5=502540cdb814dafccd6db21dfe474833
447	Fuzzy analysis and prediction of commit activity in open source software projects	Department of Computer Science and Engineering, Guru Nanak Dev University, Amritsar, Punjab, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84990211234&doi=10.1049%2fiet-sen.2015.0087&partnerID=40&md5=1d9ed3f91c189df6590c79e00e05f1a
448	Data parallelism and trilateral filter based enhanced exudate segmentation in fundus images	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991801229&doi=10.1109%2fICETECH.2016.7569187&partnerID=40&md5=c9bdd410d27b85eaabe38d1459210c4d
449	Consumer Preferences and Purchase Decision-making for Micro-packs— An Empirical Study	Guru Nanak Dev University, Amritsar, Punjab, India; Department of University Business School, Guru Nanak Dev University, Amritsar, Punjab, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85003530588&doi=10.1177%2f0972262916652806&partnerID=40&md5=7666c34bdb47dee7a2fdce9cd873f2d1
450	Synthesis, cytotoxic evaluation, docking and QSAR study of N-(4-Oxo-2-(4-((5-Aryl-1,3,4-Thiadiazol-2-yl)Amino)Phenyl)Thiazolidin-3-yl) benzamides as antitubulin agents	IKG Punjab Technical University, Kapurthala, Punjab, India; Khalsa College of Pharmacy, Amritsar, Punjab 143 001, India; Department of Pharmaceutical Sciences, Ch. Bansi Lal University, Bhiwani, 127021, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978962280&doi=10.2174%2f1568026616666160212124316&partnerID=40&md5=9518f2bca90199872940ad085d377564
451	Rheological and time domain 1H NMR relaxation studies of some polyhydroxy solutes in presence of l-glycine	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964345038&doi=10.1016%2fj.ict.2016.04.006&partnerID=40&md5=927a2048d28c9277ff5943be012b4cd2
452	Computational Tools and Techniques for Biomedical Signal Processing	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India	1	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85012969633&doi=10.4018%2f978-1-5225-0660-7&partnerID=40&md5=111cf63051809395c4cfe22fed1e22
453	Optimized hybrid Silica TDFA-RAMAN wideband amplifier yielding flat gain in S-Band	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Sultanpur Lodhi, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84980417518&doi=10.1109%2fICCTICT.2016.7514572&partnerID=40&md5=1796bf4539291bd408078c6b9f5f1a8b
454	A brief survey on molecular communications in nanonetworks	Department of ECE, Guru Nanak Dev University, Regional Campus, Jalandhar, India; Department of CSE, UIET, Panjab University, Hoshiarpur, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84980378801&doi=10.1109%2fICCTICT.2016.7514605&partnerID=40&md5=23e6b3173ca2ecdcaf3eff32400a62cc
455	Performance Analysis of RSCC Based WiMax System for Different SUI Channel Conditions Using QPSK and QAM-16	Department of Electronics Technology, GND University, Amritsar, Punjab, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84975609276&doi=10.1007%2fs11277-016-3205-0&partnerID=40&md5=940954c90d240f51d89dc64a586c72ae
456	Optoelectronic and photovoltaic performances of pyridine based monomer and polymer capped ZnO dye-sensitized solar cells	Department of Electronics Technology, Guru Nanak Dev University (GNDU), Regional Campus, Gurdaspur, Punjab 143521, India; Department of Chemistry, Indian Institute of Technology, Ropar, Punjab 140001, India; Department of Electronics and Communication Engineering, Khalsa College of Engineering, Amritsar, Punjab 143001, India; Center of Nanosciences and Nanotechnology, Punjab University, Chandigarh, 160014, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84974705005&doi=10.1166%2fenn.2016.10865&partnerID=40&md5=24ccf4189bf34e43811ffeeaa367849a
457	Structural transitions in alumina nanoparticles by heat treatment	Glass Physics and Sensors Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Chemistry and Biochemistry, Florida State University, Tallahassee, FL 32306-4390, United States; Department of Chemistry and Process and Recourse Engineering, University of Cantabria, Santander, 39005, Spain	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984578660&doi=10.1063%2f1.4947632&partnerID=40&md5=14cf956101ac657e3ebf9236d4631eba

458	Densities and Viscosities of Polyhydroxy Solutes in Aqueous Tetraethylammonium Bromide Solutions at Different Temperatures	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84969964597&doi=10.1021%2facsc.iced.5b00940&partnerID=40&md5=3e4eda9f23121a3dadcdbe79c781cf4e
459	Dielectric studies of boron sub phthalocyanine chloride thin films by admittance spectroscopic techniques	Department of Physics, DAV College, Amritsar, 143301, India; Material Research Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	6	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984581102&doi=10.1063%2f1.4946328&partnerID=40&md5=818b5ba63a1cb5d6055905dd117df6ee
460	Kinetic response study in chemiresistive gas sensor based on carbon nanotube surface functionalized with substituted phthalocyanines	Material Science Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Applied Sciences, I.K. Gujral Punjab Technical University, Kapurthala, 144601, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984539034&doi=10.1063%2f1.4946544&partnerID=40&md5=2273eec7e09d6171ecd8867e1a180325
461	Performance of Alamouti scheme with convolution for MIMO system	Department of ECE, Guru Nanak Dev University, Regional Campus, Sathiala, Amritsar, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966355530&doi=10.1109%2fRAECS.2015.7453355&partnerID=40&md5=406be088ad4c68d6a86e8d0b04ee3db3
462	Technology intensity and outward foreign direct investment from the Indian manufacturing sector: A firm-level analysis	Punjab School of Economics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	1	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84963622953&doi=10.1386%2ftmsd.15.1.37_1&partnerID=40&md5=ac27e14946938c430f5e0db2883afba1
463	RSM optimized soy protein fibre as a sorbent material for treatment of water contaminated with petroleum products	Department of Chemistry, Lyallpur Khalsa College, Jalandhar, Punjab, India; Department of Chemistry, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, Punjab, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	7	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84955183792&doi=10.1080%2f19443994.2014.993720&partnerID=40&md5=83aa4eb3d246acd28cf82224b4348755
464	Prediction of protein cellular localization site by using data mining techniques	Dept. of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, Punjab, India	2	2016	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964835130&doi=10.1109%2fCoCoNet.2015.7411271&partnerID=40&md5=56eac11c64f4396a1d84a7f0242d029b
465	Evaluating the performance of tree based classifiers using Ebola virus dataset	Department of Computer Science and Engineering, Guru Nanak Dev University, Amritsar, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964502050&doi=10.1109%2fNGCT.2015.7375168&partnerID=40&md5=173b3f1b939f04472ca3a1be7b999b98
466	A hybrid approach for improving Content Based Image Retrieval systems	Dept. of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, Punjab, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964440234&doi=10.1109%2fNGCT.2015.7375260&partnerID=40&md5=dd85227a76ccfa3778abb4cfe30e1498
467	Improvement in hydrogen sensing response of zinc oxide doped with platinum	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, BBK DAV College for Women, Amritsar, 143001, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045076710&doi=10.11159%2ficinei16.105&partnerID=40&md5=8c11265bdf3922c1067e87dafb50a20
468	Optimisation of MAC layer to mitigate the effect of increased mobility in VANET	Department of Computer Science and Engg., GNDU Regional Campus, Jalandhar, India; Department of Electronics and Communication Engg., GNDU Regional Campus, Jalandhar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020023654&doi=10.1109%2fIC3I.2016.7918038&partnerID=40&md5=0ebb6d8dc5b3da6a293afa15a8466635
469	Multivariate analysis reveals the role of 24-epibrassinolide in elemental uptake by Brassica Juncea L. under imidacloprid toxicity	Plant Stress Physiology Lab, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143 005, India; Department of Botany and Environmental Science, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140 407, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019249389&partnerID=40&md5=e9376872365332df78e093b01a560d9e
470	Role of Phytochemicals in MAPK Signaling Pathway-Mediated Apoptosis: A Possible Strategy in Cancer Chemoprevention	Guru Nanak Dev University, Amritsar, Punjab, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016798001&doi=10.1016%2fB978-0-444-63749-9.00005-0&partnerID=40&md5=0fa5fd61bfe550dd9600175f9fddb038
471	Open source software evolution: A systematic literature review (part 1)	Department of Computer Science, Guru Nanak Dev University, Punjab, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016441706&doi=10.4018%2fIJOSSP.2016010101&partnerID=40&md5=2ece7bc1d45ae44634b33623ca44bf1b
472	How do Indian mothers use feeding practices with children?	Department of Commerce and Business Administration, Khalsa College, Amritsar, India; University Business School, Guru Nanak Dev University, Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85003443805&doi=10.1108%2fJCS-02-2016-0004&partnerID=40&md5=ade427e2541aee7d86524bee784bcd13
473	An evaluation of dynamic java bytecode software watermarking algorithms	Faculty of Science and Technology, ICFAI University, Baddi (HP), India; Department of Computer Sci. and engineering, NIT, Hamirpur, India; Department of Computer Science and Technology, Guru Nanak Dev University, Amritsar, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84983086251&doi=10.14257%2fjsia.2016.10.7.13&partnerID=40&md5=5b3ea744835ed9b1d75e4ac922803e73
474	Structure and optical properties of polycrystalline InxSb30 - xSe70 (0 ≤ x ≤ 25) chalcogenide alloys	Semiconductors Laboratory, Department of Physics, GND University, Amritsar, 143005, India; Department of Physics, DAV University, Sarmastpur, Jalandhar, 144012, India	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84976870108&doi=10.21272%2finez.8%282%29.02055&partnerID=40&md5=ecbff95338f3c111e82ae6ca6cfa734

475	Design of an efficient low power multiplier: Combining reversible and an ancient vedic method approach	Department of Electronics and Communication Engineering, Lovely Professional University Phagwara, Punjab, 144411, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University Amritsar, Punjab, 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961773840&doi=10.17485%2fist%2f2016%2fv9i7%2f84474&partnerID=40&md5=fa02c8eb2b0d1d321b9dc687038f11c0
476	One-pot synthetic approach to isolate a single isomer of bis(diethylenetriamine)cobalt(III) cation in bulk using benzoates and the isomeric effects of the cation on ion association with anions	Department of Chemistry, UGC Centre for Advance Studies-I, Guru Nanak Dev University, Amritsar, India; Faculty of Chemistry and Chemical Technology, University of Ljubljana, Ljubljana, Slovenia	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961390127&doi=10.1080%2f00958972.2016.1159303&partnerID=40&md5=529bde6f193f172ab68139c11c6fefcf
477	Effect of pre-partum supplementation of rumen protected methionine plus lysine and choline on the performance of crossbred cows	ICAR-National Dairy Research Institute, Karnal, Haryana, 132 001, India; Khalsa College of Veterinary and Animal Sciences, Amritsar, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84954357625&partnerID=40&md5=b43e1eb0ad6b88c1713cd10411bcbbba
478	Erratum: Corrigendum to “Tunable microwave absorption in Co-Al substituted M-type Ba-Sr hexagonal ferrite” (Materials and Design (2016) 110 (749–761))	Department of Electronics and Communication Engineering, Yadavindra College of Engineering, Punjabi University, Guru Kashi Campus, Talwandi Sabo, Punjab, India; Department of Electronics and Communication Engineering, Rayat Bahra Institute of Engineering and Nanotechnology, Hoshiarpur, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Electronics and Communication Engineering, I.K.G. Punjab Technical University, Kapurthla, India; Department of Physics, University of Memphis, United States; Department of Physics, University School of Sciences, Gujarat University, Navrangpura, Ahmedabad, Gujarat, India; Institute of Technology, Nirma University, Ahmedabad, Gujarat, India	9	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984941862&doi=10.1016%2fj.matdes.2016.08.089&partnerID=40&md5=a186ae61a3388ad5a8f4b71678faca4c
479	Non-invasive cancer detection using molecular device based on aromatic molecules	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032900437&doi=10.1016%2fj.igte.2016.10.007&partnerID=40&md5=d0c4e5e018432064c9a17c69e011c066
480	Erratum to: Quantitative assessment of possible human health risk associated with consumption of arsenic contaminated groundwater and wheat grains from Ropar Wetland and its environs (EnvironMonit Assess, (2016), 188, 9, (506), 10.1007/s10661-016-5507-9)	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry, Centre of Advance Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85001976279&doi=10.1007%2fs10661-016-5716-2&partnerID=40&md5=25831c2daff64c712e42334af2f9131e
481	Meta-heuristics based load balancing algorithms in grid and clouds-a review	Department of Computer Engineering and Technology, GNDU, Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006792201&doi=10.1109%2fICEEOT.2016.7755237&partnerID=40&md5=8d3637d567d3b2505736318b23f561a9
482	Comparative review on optimizing headway distance for connectivity in vanets using artificial bee colony algorithm	Masters of Technology Computer Science Department, Guru Nanak Dev University, Amritsar, Punjab, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006721558&doi=10.1109%2fICCSP.2016.7754504&partnerID=40&md5=381c181eaae2f536dc518f91776cc705
483	Performance analysis of mobile WiMax for frequency selective fading channel models	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006721558&doi=10.1109%2fICCSP.2016.7754498&partnerID=40&md5=843c6ba6c66c302cca3d87e903eac631
484	Optimistic bilateral MAP-MBD based color restoration using GA	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85007371790&doi=10.1109%2fICACCI.2016.7732379&partnerID=40&md5=8847d43f8088fb07de166a26e69cb169
485	Analysis of fission-fragment mass distribution within the quantum-mechanical fragmentation theory	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84995753843&doi=10.1140%2fepja%2fi2016-16335-3&partnerID=40&md5=260d0af8a6db6d48b05ff9db2cac9ef0
486	To analyze the amelioration of phenobarbital induced oxidative stress by erucin, as indicated by biochemical and histological alterations	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Sri Guru Ram Das Institute of Medical Sciences and Research, Amritsar, Punjab, India; Natural Plant Products Division, CSIR-Institute of Himalayan Bioresource and Technology, Palampur, Himachal Pradesh, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	11	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84992343458&doi=10.2174%2f1871520616666160415154210&partnerID=40&md5=7d776e7b2ae7e490af8b2ee196d77bae

487	Modeling a SQL injection attack	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84997079653&partnerID=40&md5=c32901e328fd8cdc208322f4f51425a
488	Dispersion coefficients for the interaction of Cs atom with different material media	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Theoretical Physics Division, Physical Research Laboratory, Navrangpura, Ahmedabad, 380009, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84983738758&doi=10.1016%2fj.physleta.2016.07.051&partnerID=40&md5=54688b1a0ed5d9bfba50d7f278b34d7d
489	Design and EM analysis of dual band hilbert curve based wilkinson power divider	Department of Electronics & Communication Engineering, GNDU-RC, Jalandhar, 144009, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84992377461&doi=10.4313%2fTEEM.2016.17.5.257&partnerID=40&md5=dbc4251f213459bc20dd8df00d2bc412
490	Variation of Dielectric and Electrical Properties of Zr-Substituted Lead Calcium Iron Niobate with Temperature and Frequency	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84976288750&doi=10.1007%2fs11664-016-4685-0&partnerID=40&md5=0baa021661c5670e9b799af1cebc45a1
491	Analytical study of job scheduling using variants of ant colony optimization technique in grid	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991818155&doi=10.1109%2fICEFTECH.2016.7569363&partnerID=40&md5=9e6c517c98218773b34f872349c8f992
492	Analysis of electrocardiogram data compression techniques: A MATLAB-based approach	Dr. B. R. Ambedkar National Institute of Technology, India; Biju Patnaik University of Technology (BPUT), Rourkela, Orissa, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India; NIT, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85012988700&doi=10.4018%2f978-1-5225-0660-7.ch013&partnerID=40&md5=8cacae83715ba7154d8d7788c37fcb52
493	Diabatic crossing of chiral "twins" in the odd-odd Ag 106 nucleus: A theoretical perspective	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	1	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84980011737&doi=10.1103%2fPhysRevC.94.014324&partnerID=40&md5=e9ef2c6dc4c530ce3b53b054c07c1451
494	Studies on effect of non-genetic parameters on mortality pattern in Murrah buffaloes	Department of Animal Genetics and Breeding, Khalsa College of Veterinary and Animal Sciences, Amritsar, Punjab, India; Department of Animal Genetics and Breeding, Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, Punjab, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84989322152&partnerID=40&md5=46f9ed8daf6c871019633b2d2d6747ff
495	Impairment Aware Routing and Wavelength Assignment model employing binary logic operators	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143-005, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978536168&doi=10.1109%2fIONDM.2016.7494081&partnerID=40&md5=64a074a2112c34c92caf936297f2b7e5
496	The effects of swift heavy ion irradiation on the structural properties of poly(lactide-co-glycolide)/clay nanocomposite	ABES Institute of Technology, Ghaziabad, Uttar Pradesh, India; Department of Physics, Guru Nanak Dev University, Amritsar, India; Department of Chemical Engineering, Thapar University, Patiala, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984585790&doi=10.1063%2f1.4947842&partnerID=40&md5=836b26a08224b36f650ec4de9470d736
497	Hydrogen sensor based on Sm-doped SnO2 nanostructures	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984578793&doi=10.1063%2f1.4947771&partnerID=40&md5=130b3b7bc1a6f395fa0c1c499df9446a
498	Composition dependent spectroscopic properties of Nd3+ doped sodium lead borate glasses	BBK DAV College for Women, Amritsar, Punjab, 143001, India; Guru Nanak Dev University, Amritsar, Punjab, 143001, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984577443&doi=10.1063%2f1.4947849&partnerID=40&md5=9153923723b51e2caf2594866a16b490
499	Effect of samarium and iron substitution on the structural and magnetic properties of BaZr0.05Ti0.95O3 ceramics	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984554871&doi=10.1063%2f1.4948226&partnerID=40&md5=a92e4abe9b79f735a5d9563c1111ee6a
500	Degradation studies of 1, 6-diisocyanatohexane-extended poly (1, 4-butylene succinate) - Bioactive glass scaffolds for bone tissue repair applications	Department of Physics, Guru Nanak Dev University, Amritsar, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984549664&doi=10.1063%2f1.4947848&partnerID=40&md5=ee94478ba5d1013a6915245e69708186
501	Managing availability of web services in service oriented systems	Deptt. of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India; Deptt. of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84974695734&doi=10.1109%2fAPSEC.2015.60&partnerID=40&md5=200e99615019f7063974ec4fa2fd022d
502	Phase analysis of aluminium modified GeSbTe bulk prepared from XRD of samples	Semiconductor Laboratory Dept. of Phys. GNDU, Amritsar, India; Department of Physics, DAV University, Jalandhar, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984569950&doi=10.1063%2f1.4946385&partnerID=40&md5=34bf2f62a0f6ac19f68fcb1d62c99f93
503	Probing interactions of neurotransmitters with twin tailed anionic surfactant: A detailed physicochemical study	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; P.G. Department of Chemistry, Khalsa College, Amritsar, 143001, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957066505&doi=10.1016%2fj.jcis.2016.02.006&partnerID=40&md5=bb4ca348ad9c9f8ca30c87379769eb8f

504	A multiband fractal square patch antenna for aerospace navigation	Guru Nanak Dev University, Punjab, India; Elixir Publications, Chandigarh, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84994316447&doi=10.1109%2fINDICON.2015.7443235&partnerID=40&md5=bd507bd858345d89e33d7f755653a94f
505	Discovering execution of Real Time tasks in cloud computing	Department of Computer Science and Engg., GNDU Regional Campus, Jalandhar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966573930&doi=10.1109%2fICGCIOT.2015.7380618&partnerID=40&md5=6dd15a3860b25e78e708c9a211b6f35c
506	Quad-band reconfigurable MEMS antenna on silicon substrate for Ku-band applications	Department of ECE, Guru Nanak Dev University-RCJ, Punjab, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84963958991&doi=10.1109%2fHSPCC.2015.7375019&partnerID=40&md5=6ffbf30741379e152eb1b5e75034e8c
507	Security threats in big data	Guru Nanak Dev University, Regional Campus, Jalandhar Punjab, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046318225&doi=10.17654%2fECV3PII16623&partnerID=40&md5=f6e1bbf5066fa34da9c94b1b63e6c50f
508	Obesity and neuroinflammation	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032932641&doi=10.1007%2f978-981-10-1711-7_12&partnerID=40&md5=339514cd6f5843eefe8ee69f5272b3f0
509	A comparative analysis of phishing detection and prevention techniques	Department of Computer Science, Guru Nanak Dev University, Regional Campus, Jalandhar, India	1	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027000828&doi=10.14257%2fijjdc.2016.9.8.32&partnerID=40&md5=460a93d1ee1384c69001241d6720cd5a
510	Detection of adulteration in uncooked kashmiri mutton product (Rista) with cattle and buffalo meat	Division of Livestock Products Technology, Sher-e-Kashmir University of Agricultural Sciences & Technology of Kashmir Shuhama, Alusteng, Srinagar 190006, India; Division of Animal Genetics and Breeding, Sher-e-Kashmir University of Agricultural Sciences & Technology of Kashmir Shuhama, Alusteng, Srinagar 190006, India; Division of Veterinary Public Health and Epidemiology, Khalsa College of Veterinary and Animal Sciences, Amritsar, Punjab 143001, India	6	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85025429605&partnerID=40&md5=d8e41d6bd423579165fdb5632c641990
511	On the selection of efficient routing protocol for 802.11p interface in VANET	Department of Computer Science and Engineering, GNDU Regional Campus, Jalandhar, India; Department of Electronics and Communication Engineering, GNDU Regional Campus, Jalandhar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020047825&doi=10.1109%2fIC3I.2016.7918037&partnerID=40&md5=d7ce6eb29eea67a8d902789ad73663a8
512	Biochemical and physiological responses in in vitro germinated seedlings of Brassica juncea exposed to metal stress	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143 005, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017350676&partnerID=40&md5=40103be27f7cb8d331d9f73c24604969
513	Open source software evolution: A systematic literature review (part 2)	Department of Computer Science, Guru Nanak Dev University, Punjab, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016443147&doi=10.4018%2fIJOSSP.2016010102&partnerID=40&md5=a5976aaa9dc69e4e55370f8afc62a5e7
514	Effect of keto-compounds from essential oils on the growth and reproductive performance of tribolium castaneum (herbst)	Insect Biopesticide Research Centre, 30 Parkash Nagar, Jalandhar, 144003, India; Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85012970231&partnerID=40&md5=3c3d87520f0daaa2a98ea5964549959a
515	To Analyze the Amelioration of Phenobarbital Induced Oxidative Stress by Erucin, as Indicated by Biochemical and Histological Alterations	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar-143005, Punjab, India	11	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85010383634&partnerID=40&md5=baa473ec5b6021c2d598c3810ec61d5d
516	Influence of cadmium on antioxidative defence system, photosynthesis, level of osmolytes and ions uptake in Brassica juncea	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85000631155&doi=10.22159%2fijpps.2016v8i10.13922&partnerID=40&md5=d94f3b4d2daf5b40da443ca884c72749
517	Induction of histopathological lesions in renal tissue of the fish Labeo rohita upon exposure to municipal wastewater of Tung Dhab Drain,Amritsar,India	Department of Zoology, Khalsa College, Amritsar, Punjab 143001, India; Aquatic Biology Laboratory, Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84992323199&doi=10.3906%2fzoo-1511-33&partnerID=40&md5=a6ab29fb38522e1043ac33d44336a934
518	Efficient key mechanism and reduced cipher text technique for secured data communication	Khalsa College, Amritsar, Punjab, India; Guru Nanak Dev University, Amritsar, Punjab, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84987625021&doi=10.1504%2fIJSCC.2016.076844&partnerID=40&md5=865043696f1dcb1442876115d4f6f16b
519	Inset fed microstrip rectangular patch antenna with '+' shaped slots for wireless applications	Dept. of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus Gurdaspur, Punjab, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979765598&partnerID=40&md5=bdef67d21c70f23c257d20f9314b9de5
520	Antimutagenic potential of pollen grains of some medicinal plant species	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84977070382&partnerID=40&md5=7a2df5e510b64a6b83dcf59e14b8e743

521	Evaluation of flow and average entropy based detection mechanism for DDOS attacks using NS-2	Electronics and Communication Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India; Punjab Technical University Jalandhar, Punjab, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India; Computer Science and Engineering Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84971472979&doi=10.14257%2fijisia.2016.10.5.13&partnerID=40&md5=e6a401338505238c41a8f7b6014df1ec
522	A proactive solution to manage web service unavailability in service oriented software systems	Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964876039&doi=10.1007%2f978-3-662-50539-7_20&partnerID=40&md5=ad4bc3dd47a81b8361cc042778a4a761
523	Octahedral titanium(IV) complexes with five novel hydroxamic acid ligands: Synthesis, spectroscopic characterization, and in vitro activities on IMR-32 and CHO cell lines and ten bacterial strains	Department of Chemistry, National Institute of Technology, Hamirpur, Himachal Pradesh, 177005, India; Department of Biotechnology, Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Sonapat (Haryana), 131039, India; Department of Parasitology, PGIMER, Chandigarh, 160012, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	6	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84959465581&doi=10.1134%2fS1070363216010242&partnerID=40&md5=48e2c2e68616b3278f4fde8ecca15216
524	Highly chemo-and diastereo-selective synthesis of 2,6-diazabicyclo[3.2.0]heptan-7-ones, pyrrolidines and perhydroazirino[2,3-c]pyrroles	Department of Chemical Sciences, I. K. Gujral Punjab Technical University, Kapurthala, Punjab, 144 603, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143 005, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85010440809&doi=10.3998%2fark.5550190.p009.845&partnerID=40&md5=7a07acc103d45820a740a76ea4488f35
525	FWM modeling and impairments optimized amplifiers placement methodology for link design	Department of Electronics Technology, GNDU, Amritsar, 143005, India	2	2016	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006753989&doi=10.1109%2fICCSP.2016.7754085&partnerID=40&md5=04951da9d491676a7d3a63e58cb7ae98
526	SDN-Based mobile access networks: 'Up-Coming technology'	Dept. of Computer Science and Electronic Engineering, G.N.D.U, Amritsar, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006721091&doi=10.1109%2fICEEOT.2016.7755212&partnerID=40&md5=574f65a7d0e126e0ab6b10dbba303173
527	Remote sensing noise reduction using minimum patch based on OMP	Department of CET, Guru Nanak Dev University, Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014831051&doi=10.1145%2f3015166.3015168&partnerID=40&md5=6fb6d4a4f2a5e05f274afde291093e20
528	Lead Manager's Reputation and Aftermarket Survival of Initial Public Offerings: Empirical Evidence from India	Department of Commerce and Business Management, DAV University, Jalandhar, India; Department of Commerce, Guru Nanak Dev University, Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85106670341&doi=10.1177%2f0258042X16680975&partnerID=40&md5=f93ee72efa298dfd82bd3d8299f92664
529	A comparison of modifications induced by Li3+ and Ag8+ ion beams irradiation in poly(lactide-co-glycolide) films	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemical Engineering, Thapar University, Patiala, 147004, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85004000403&doi=10.1134%2fS1560090416060105&partnerID=40&md5=deb399c1cab2ff0d8d9bc382e98b3888
530	Quantitative evaluation of software architecture	Department of Computer Science and Engineering, Guru Nanak Dev University, Amritsar (pb.), 143005, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84997124470&partnerID=40&md5=e93b118be07cebb2c112e03ca0a8f915
531	Parametric analysis of cellular network design in warfare situation	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84997120337&partnerID=40&md5=22a7b6e331a34d4ee20bf7326111c6de
532	De-chelation of diphenylthiophosphate from nickel(II) complex by 1,10-phenanthroline	Department of Chemistry, University of Jammu, Jammu, 180 006, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063148233&partnerID=40&md5=554c5bf4f2d9d64fdfa48a11be411f4e
533	Assessment of patient satisfaction with various in-patient services at a tertiary care facility in Amritsar	Department of Sports Medicine and Physiotherapy, Guru Nanak Dev University, Amritsar, Punjab, India	1	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991581679&doi=10.5958%2f0976-5506.2016.00241.2&partnerID=40&md5=5f390338792765d3cfc3daef60be09d1
534	A parametric study of Planar Inverted F Antenna (PIFA) for mobile application	Guru Nanak Dev University, Punjab, India; Athal Services Private Limited, Chandigarh, India; Chandigarh Group of Colleges, Mohali, Punjab, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991696462&doi=10.1109%2fSPIN.2016.7566758&partnerID=40&md5=a7d35e7f09e799483594fdc9d9d719a5
535	Cd-metal stress protection in B. juncea triggered by the synthesis of osmolytes, plant growth regulators and antioxidants	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85033489947&doi=10.5958%2f0974-360X.2016.00274.2&partnerID=40&md5=a9c88b7f11d0bb385f92147770e3bd4a

536	The Empirical Investigation of Causal Relationship between Intraday Return and Volume in Indian Stock Market	Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85003713716&doi=10.1177%2f0972262916651533&partnerID=40&md5=717ec40b15539dfe1abd3111affbf282
537	Alteration in the level of osmoprotectants and antioxidant analysis by confocal microscopy in Brassica juncea subjected to metal stress	Department of Botanical & Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84989338201&partnerID=40&md5=ab3aed62f640dfc85ca97d72b21d3e02
538	Identifying wrong assemblies in de novo short read primary sequence assembly contigs	Studio of Computational Biology & Bioinformatics, Biotechnology Division, CSIR-Institute of Himalayan Bioresource Technology, Palampur, Himachal Pradesh, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988298056&doi=10.1007%2fs12038-016-9630-0&partnerID=40&md5=b1b03f3fa753097fe327a777ccb4478b
539	Chaotic function based ECG encryption system	Guru Nanak Dev University, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016029841&doi=10.4018%2f978-1-5225-0920-2.ch013&partnerID=40&md5=583ce1c255e9be673b3c1900e2ecc9da
540	Preface	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India	1	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052722333&doi=10.4018%2f978-1-5225-0660-7&partnerID=40&md5=094fc50b3eef723e86ffab86bf210f1a
541	Success dimensions of ICTs in healthcare	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85012988586&doi=10.4018%2f978-1-5225-0660-7.ch007&partnerID=40&md5=29cd92e0cc0b89b32dc2d98c1a5bb781
542	Single electronics for biomedical applications	ECE department, Guru Nanak Dev University, Regional Campus, Jalandhar, India	1	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85012965522&doi=10.4018%2f978-1-5225-0660-7.ch010&partnerID=40&md5=d5001bd579ed21608fb831ce539a1d41
543	Optimization of cloud resourcesfor air pollution monitoring devices	Computer Science Department, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84999673393&doi=10.1145%2f2979779.2979807&partnerID=40&md5=f1633197ab1e707c582bb82ec78b8c13
544	Comparing Several Variances with a Control in Direction-mixed Families of Hypotheses	Department of Statistics, Panjab University, Chandigarh, India; Department of Mathematics, Guru Nanak Dev University, Punjab, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84975312002&doi=10.1080%2f03610918.2014.936939&partnerID=40&md5=413bc551dd11d8e880cbfa96b2353cbf
545	Induced Electronic and Thermal Effects of 86 MeV Nickel Ions in Bisphenol-A Polycarbonate	Department of Physics, Lovely Professional University, Phagwara, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979610007&doi=10.1080%2f00222348.2016.1197502&partnerID=40&md5=4c37ccfeffab0bf95a39920fc4d89b3
546	Diversification Strategies of Multi-national and Domestic Companies in India: A Comparative Evaluation in the Dynamic Environment	Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India; Senior Researcher, Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85107361883&doi=10.1177%2f0258042X16666578&partnerID=40&md5=05f2f009a35f49573b6b0f8e8a942014
547	Parametric analysis of different GA based distributed DSS Query Optimizer models	DCSA, DAV University, Jalandhar, Punjab, India; DCSA, GNDU, Amritsar, Punjab, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84980384770&doi=10.1109%2fICCTICT.2016.7514546&partnerID=40&md5=f7bc15bfb6aee45d9d2baf8a36962da
548	Upgrading a 20 Gbps DWDM system to 160 Gbps system using add/drop multiplexers and couplers	Deptt. of ECE, GNDU Regional Campus, Jalandhar, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84980351871&doi=10.1109%2fICCTICT.2016.7514625&partnerID=40&md5=c4770c835c437079658f7169f3a4ae5e
549	Fabrication and microwave absorption properties of hexaferrite composites in Ku-band	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84981297807&doi=10.1109%2fAEMC.2015.7509152&partnerID=40&md5=4dc59df3288ab6cf0a8d089e95abda85
550	Reporting Diplomacy: China in Indian Media	Department of Sociology, Guru Nanak Dev University, Amritsar, India	1	2016	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979225389&doi=10.1111%2faspp.12271&partnerID=40&md5=f91b063dfa921ab2e4423550533716d6
551	Erratum: Relationship of various flour properties with noodle making characteristics among durum wheat varieties (Food Chemistry (2015) 188 (517-526))	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Division of Genetics, Indian Agricultural Research Institute, New Delhi, 110012, India	8	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957606383&doi=10.1016%2fj.foodchem.2016.02.025&partnerID=40&md5=dd0ca586bf598bb29aed249dcbf3cc9
552	A methodology for inter amplifier separation optimization in WDM systems	Dept of Electronics Technology, Guru Nanak Dev University, Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979255305&doi=10.1109%2fICMOCE.2015.7489784&partnerID=40&md5=bde4da651dbdd6553bc9d6282c2a0fe5

553	A note on successive comparisons between several ordered variances	Department of Mathematics, Guru Nanak Dev University, Amritsar, India	1	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84970023165&doi=10.1080%2f03610926.2014.901371&partnerID=40&md5=8385df6ae80594be6de9c2823b8bce8d
554	Unraveling the electrical conduction of C-40 quasi-fullerene molecular junction	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070241351&doi=10.1142%2fS2047684116500093&partnerID=40&md5=c0faa5e1a63323c01a9cacc2ad2c0806
555	Integration of organic and chemical fertilizers as affected by growth and yield of wheat (<i>Triticum aestivum</i>)	Department of Agriculture, Khalsa College, Amritsar, 143 001, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85009200695&partnerID=40&md5=42d711695ac56e4e738d503e17e59fe7
556	Room temperature ferromagnetism and luminescent behavior of Ni doped ZnO nanoparticles prepared by coprecipitation method	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Material Science Division, Inter University Accelerator Centre, New Delhi, 110067, India	7	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984581003&doi=10.1063%2f1.4948142&partnerID=40&md5=ff0de7f087ab09479a501a08fe98c9a9
557	Investigation of xFe ₂ O ₄ (x = Mn, Co) doped hydroxylapatite ferromagnetic biomaterials for the treatment of damaged bone and magnetically targeted drug delivery systems	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984565387&doi=10.1063%2f1.4947642&partnerID=40&md5=0622bf4bb2a53479f8920cd0eb521c4
558	Effect of pH on particles size and gas sensing properties of In ₂ O ₃ nanoparticles	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984562925&doi=10.1063%2f1.4947787&partnerID=40&md5=00bac111ab62d7b6eb824d343cdd8372
559	Growth and characterization of macroscopic reduced graphene oxide paper for device application	Material Science Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984538942&doi=10.1063%2f1.4947822&partnerID=40&md5=41f96475b9cc2058edfc912bc46b12a3
560	Synthesis and characterization of 64SiO ₂ -26CaO-5P ₂ O ₅ -5CuO bioactive composition for the growth of hydroxyapatite layer by XRD, Raman and pH studies	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984538741&doi=10.1063%2f1.4947872&partnerID=40&md5=c392c56ddca52b20107a2bfbd0ed9c40
561	In situ high pressure investigations on metastable BiBO ₃	Department of Physics, Guru Nanak Dev University, Amritsar, 14300, India; High Pressure and Synchrotron Radiation Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984538356&doi=10.1063%2f1.4947633&partnerID=40&md5=262d98ad dc2659f4380252c0b601349c
562	Optical Wavelength Converters Based on Four Wave Mixing in SOA-MZI Configuration	Department of Electronics and Communication, Guru Nanak Dev University (RC Gurdaspur), India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84973322963&doi=10.1051%2fmateconf%2f20165701017&partnerID=40&md5=4222286dcfb1e3d16546d94df49269b5
563	Screen printed electrodes for improvised voltammetric determination of mercury(II) ions	School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; School of Advanced Sciences, Vellore Institute, Technology University, Vellore, 632014, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Faculty of Science and Engineering, School of Chemistry and the Environment, Division of Chemistry and Environmental Science, Manchester Metropolitan University, John Dalton Building, Chester St. Manchester, M1 5GD, United Kingdom	7	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979781329&doi=10.1166%2fsl.2016.3644&partnerID=40&md5=b134c8763169e9c08a92c8bd617885da
564	Thermoelectric and electrical properties of Ba _{0.5} Sr _{0.5} CoxRuxFe(12–2x)O ₁₉ ferrite*	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; Department of Electronics and Communication Engineering, Rayat Bahra Institute of Engineering and Nanotechnology, Hoshiarpur, India; High Voltage Laboratory, Wroclaw University of Technology, Wroclaw, Poland; Department of Physics, Osmania University, Hyderabad, India	4	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84965119131&doi=10.1140%2fepib%2fe2016-60471-6&partnerID=40&md5=04f60397b86bc1a18641ce0a4f85daa3
565	Graphene Nano-ribbon based temperature nanosensor and it's characteristic	Department of Electronics and Communication Engineering, GNDU Regional Campus, Jalandhar, Punjab, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966356763&doi=10.1109%2fRAECS.2015.7453399&partnerID=40&md5=eb6187af7beae3aedcc9c9a5063a55f4
566	Integrating 'State of the Network' information into impairment model using binary logic operators	Department of Electronics and Communication, R.I.E.I.T. Railmajra (Affiliated to IKGPTU, Jalandhar) SBS Nagar, 143-533, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143-005, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966633277&doi=10.1109%2fICCNC.2016.7440613&partnerID=40&md5=3a9859013572f58ea36170fc8ffb356f
567	The Two Bhai Sahibs: Vir Singh and Kahn Singh in comparative perspective	Guru Nanak Dev University, Amritsar, India	1	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051817486&partnerID=40&md5=73649b20341879214a25a024350f8ba0
568	Class inheritance structures and software maintenance activities - An empirical analysis	Dept. of Computer Science, Guru Nanak Dev University, Amritsar, India	1	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964470842&doi=10.1109%2fINGCT.2015.7375208&partnerID=40&md5=c45f236688570883c86bc258a3e4493e

569	Role of consumer personality and involvement in understanding customer experience	University Grants Commission Research Fellow, University Business School, Guru Nanak Dev University, India; University Business School, Guru Nanak Dev University, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85106780565&doi=10.21511%2fjm.12%283%29.2016.02&partnerID=40&md5=82b7fae796b3cfeff357396d39c7c1db
570	Web cultural mining and delivering culture based web services	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, 143005, India; School of Computer Application, Lovely Professional University, Jalandhar, 144401, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057637980&doi=10.17654%2fECSV3PII16399&partnerID=40&md5=17e275bfe2d19ffecd5ab99069ea563
571	On the selection of optimum routing protocol in the presence of heterogeneous application traffic situations for WSN	Department of Computer Science, Guru Nanak Dev University, Regional Campus, Jalandhar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027078265&doi=10.14257%2fijgdc.2016.9.7.19&partnerID=40&md5=fe9acdc0843f0bbadd89b5d9846d3067
572	Survey: Radio over fiber and wireless broadband access technologies	G.N.D.U Guru Nanak Dev University, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027039365&doi=10.14257%2fijgdc.2016.9.3.10&partnerID=40&md5=54c6ef2f53e69ebf23617110d81ca709
573	Real time data acquisition using mobile robot	Department of ECE, Lovely Professional Univeristy, Jalandhar, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85013188827&partnerID=40&md5=c41cdf42a3042368a602e04fb3c76adb
574	Best simultaneous approximation in quotient spaces	Guru Nanak Dev University, Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85007388941&doi=10.1007%2f978-81-322-3640-5_21&partnerID=40&md5=2bbc7b0eb34db7c32363c7a99c166435
575	SLA mechanism for tenant submission in multiple queues	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006454614&partnerID=40&md5=87d98a5bd1c7797b5acce16a8d1e9b07
576	Opinion dynamics based affinity propagation clustering	Department of Computer Science, Guru Nanak Dev University, RC, Jalandhar, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006421172&partnerID=40&md5=916294cbbbd7a6d4a023e4e729ec2d96
577	A novel neighborhood density based K-means algorithm for clustering quality objective function	Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus, Jalandhar, Punjab, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006414578&partnerID=40&md5=11b7447be05ff7664f6ac3a45754422e
578	A research proposal: Tracking open source software evolution for the characterization of its evolutionary behavior	Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84998678723&doi=10.1007%2f978-3-319-49094-6_63&partnerID=40&md5=ca29d8899e7e27370cc8d19690f92b18
579	Cloud resources optimization for air pollution monitoring devices and avoiding post pillar problem	Computer Science Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84989915166&doi=10.1007%2f978-981-10-2738-3_15&partnerID=40&md5=2a5e91753cbef3b61c30678810489cfb
580	Understanding Open Source Software Evolution Using Fuzzy Data Mining Algorithm for Time Series Data	Department of Computer Science, Guru Nanak Dev University, Amritsar, India; Department of Computer Science, I.K.G. Punjab Technical University, Jalandhar, Punjab, India	3	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84989314747&doi=10.1155%2f2016%2f1479692&partnerID=40&md5=4c1d97b6f0dfabec45cc1c842f8f2c1e
581	Make in India vs FDI: Impact on firm's productivity	School of Business, Lovely Professional University, Punjab, India; Punjab School of Economics, Guru Nanak Dev University, Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84986222549&partnerID=40&md5=38f306d0c86553b9d6f225ec093b19c9
582	Infrastructure development and its impact on economic growth of India	School of Business, Lovely Professional University, Punjab, India; Department of Economics, Punjab School of Economics, Guru Nanak Dev University, Amritsar, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84986208992&partnerID=40&md5=30b63ebf2ff272e346b0055664468ee4
583	Assessment of water quality of tung dhab drain-an international water channel-using multivariate statistical techniques	PG Department of Zoology, Khalsa College, Amritsar, Punjab, 143001, India; Aquatic Biology Laboratory, Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84980037557&doi=10.3233%2fAIJW-160030&partnerID=40&md5=3346ba6bb0a535367ad8821d087bef82
584	Quantum transport by varying the length of the molecule in nano device	Electronic Department, Guru Nanak Dev University, Amritsar, Punjab, India	4	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84975057044&doi=10.1016%2fj.matpr.2016.04.158&partnerID=40&md5=6ff97e3de1e638816fba885852b7faaf
585	Generating data for testing community detection algorithms	Guru Nanak Dev University, Regional Campus, Gurdaspur, India; KC Group of Institutes, Nawashahr, India	2	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84974733815&doi=10.1007%2f978-981-10-0767-5_43&partnerID=40&md5=246921e1922afda828b36121d28175b6
586	Ant colony system-based E-Supermarket website link structure optimization	Department of Computer Science and Engineering, DAV University, Jalandhar, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, India	2	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84964829661&doi=10.1007%2f978-981-10-0451-3_24&partnerID=40&md5=6f083dec0ad357ce0876a39f269e1cc4

587	Corrigendum to "Pyrene-based chemosensor detects picric acid upto attogram level through aggregation enhanced excimer emission" [Anal. Chim. Acta 864 (2015) 55–63], DOI: 10.1016/j.aca.2015.01.029	Department of Chemistry, UGC-Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India	3	2016	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84956905322&doi=10.1016%2fj.aca.2015.11.005&partnerID=40&md5=820ba28cd594f4c9f474cc55bb382363
588	Novel microsatellite markers identification and diversity characterization in <i>Pteris cretica</i> L	Division of Biotechnology, CSIR - Institute of Himalayan Bioresource Technology, Post Box 6, Palampur, Himachal Pradesh 176061, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, 143005, India	5	2016	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84954552057&doi=10.1007%2fj.13562-015-0316-8&partnerID=40&md5=f3f8a0d26bdf6b55de6cdfef9d19d7f4
589	Workshop on "Benefits of Acoustics in Learning Environment"	M/s. Armstrong World Industries (India) Pvt. Ltd.	30	2016	12 April, 2018	Collaboration	Not Available
590	Centre for Science and Environment, New Delhi	Centre for Science and Environment, New Delhi	32	2017	27-03-17	Faculty and students exchange, collaborative research	https://drive.google.com/file/d/1s6YdJ1H5rtKvvpP5IUVRFok-AAUk157K/view?usp=sharing
591	National Institute of Pharmaceutical Education and Research, Mohali	National Institute of Pharmaceutical Education and Research, Mohali	27	2017	12-09-17	Faculty and students exchange, collaborative research	https://drive.google.com/file/d/1s6YdJ1H5rtKvvpP5IUVRFok-AAUk157K/view?usp=sharing
592	CSIR-Indian Institute of Integrative Medicine, Jammu	CSIR-Indian Institute of Integrative Medicine, Jammu	45	2017	12-09-17	Faculty and students exchange, exchange of academic information, collaborative research	https://drive.google.com/file/d/1s6YdJ1H5rtKvvpP5IUVRFok-AAUk157K/view?usp=sharing
593	Ministry of Youth Affairs and Sports, New Delhi	Ministry of Youth Affairs and Sports, New Delhi	36	2017	30-10-17	Collaboration in academic endeavours	https://drive.google.com/file/d/1s6YdJ1H5rtKvvpP5IUVRFok-AAUk157K/view?usp=sharing
594	Sri Guru Ram Das Institute of Medical Sciences & Research, Amritsar	Sri Guru Ram Das Institute of Medical Sciences & Research, Amritsar	28	2017	19-12-17	Faculty and students exchange programs, research and development participation	https://drive.google.com/file/d/1s6YdJ1H5rtKvvpP5IUVRFok-AAUk157K/view?usp=sharing
595	Phenolic composition and antioxidant potential of grain legume seeds: A review	Department of Biotechnology, Khalsa College, Amritsar, Punjab 143002, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029230766&doi=10.1016%2fj.foodres.2017.09.026&partnerID=40&md5=056907d49b8e32760af46231d6cb3163
596	An Energy-Efficient Architecture for the Internet of Things (IoT)	Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus, Gurdaspur, 143521, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027440737&doi=10.1109%2fjsyst.2015.2469676&partnerID=40&md5=82b5676fbaf86997ff3f439727d52a93
597	Recent advances (2015–2016) in anticancer hybrids	School of Chemistry and Physics, University of KwaZulu Natal, P/Bag X54001, Westville, Durban, 4000, South Africa; Department of Chemistry, DAV College, Amritsar, 143001, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026326795&doi=10.1016%2fj.ejmech.2017.07.033&partnerID=40&md5=db6ae08588bb9667840c7e51d9f0dbfa
598	Wheat starch production, structure, functionality and applications—a review	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Centre for Applied Agriculture, Central University of Punjab, Bathinda, 151001, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006085561&doi=10.1111%2fjifs.13266&partnerID=40&md5=456f6abc92c70fbca8a3f26917a0c3b7
599	Bioactive constituents in pulses and their health benefits	Department of Biotechnology, Khalsa College, Amritsar, Punjab 143002, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Centre for Applied Agriculture, Central University of Punjab, Bathinda, 151001, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84996587294&doi=10.1007%2fj.13197-016-2391-9&partnerID=40&md5=9c32bb6ff5c45d02a98408db1ae50bde
600	Advances in the synthesis, molecular architectures and potential applications of gemini surfactants	Department of Physical and Environmental Sciences, University of Toronto Scarborough, Toronto, M1C 1A4, Canada; Department of Chemistry, UGC-Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027196469&doi=10.1016%2fj.cis.2017.07.032&partnerID=40&md5=16e5e31f9a43f41364b34e0a25ec98e7
601	The value of pyrans as anticancer scaffolds in medicinal chemistry	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Pharmaceutical Chemistry, M. M. College of Pharmacy, Maharishi Markandeshwer University, Mullana, Haryana 133203, India; Department of Chemistry, Faculty of Science, University of Buea, P.O. Box 63, Buea, Cameroon; Institute for Pharmacy, Martin-Luther-Universität Halle-Wittenberg, Wolfgang-Langenbeck-Str. 4, Halle (Saale), 06120, Germany; Sri Sai College of Pharmacy, Manawala, Amritsar, 143115, India	7	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026780474&doi=10.1039%2fc7ra05441f&partnerID=40&md5=4b6a3f47545a32be2933d4f6b22eef6e

602	Comparative study on gas sensing properties of rare earth (Tb, Dy and Er) doped ZnO sensor	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85013015725&doi=10.1016%2fj.jpcc.2017.02.004&partnerID=40&md5=26cfadf5e4b1a59ddd3b0cc19066f05a
603	A lightweight biometrics based remote user authentication scheme for IoT services	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab 144001, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85009799135&doi=10.1016%2fj.jisa.2017.01.003&partnerID=40&md5=2b85353834d93ca6b594f6636d91b375
604	Saponins in pulses and their health promoting activities: A review	Department of Biotechnology, Khalsa College, Amritsar, Punjab 143002, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018416827&doi=10.1016%2fj.foodchem.2017.04.161&partnerID=40&md5=e64f3db6961d66b2ef2590ee1d851971
605	Detection of Bearing Faults in Mechanical Systems Using Stator Current Monitoring	Department of Mechanical Engineering, Guru Nanak Dev University Regional Campus Sathiala, Amritsar, 143205, India; School of Mechanical Materials and Energy Engineering, Indian Institute of Technology Ropar, Ropar, 140001, India	2	2017	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020623159&doi=10.1109%2fTII.2016.2641470&partnerID=40&md5=a30295359d8e751b3b50e9f8c44e8c63
606	Overexpression of hypoxia-inducible factor and metabolic pathways: Possible targets of cancer	Guru Nanak Dev University, Department of Botanical and Environmental Sciences, Amritsar, 143005, India; Sri Guru Ram Das University of Health Sciences, Department of Biochemistry, Amritsar, 143001, India; Guru Nanak Dev University, Department of Pharmaceutical Sciences, Amritsar, 143005, India; Sri Guru Ram Das University of Health Sciences, Department of Pathology, Amritsar, 143001, India	6	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85034040006&doi=10.1186%2fs13578-017-0190-2&partnerID=40&md5=ef015ea50d0ddcaf90ef5b94d6b49615
607	Triazole tethered isatin-coumarin based molecular hybrids as novel antitubulin agents: Design, synthesis, biological investigation and docking studies	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Lloyd Institute of Management and Technology, Greater Noida, UP, India; Indian Institute of Integrative Medicine, Jammu, India	7	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026845692&doi=10.1016%2fj.bmcl.2017.07.069&partnerID=40&md5=5708707c2fcf6040a2144bdf0fe0fe46f
608	Structure-property correlations in TiO2-Bi2O3-B2O3-TeO2 glasses	Sensors and Glass Physics Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry and Process & Recourse Engineering, University of Cantabria, Santander, 39005, Spain; Institute of General and Inorganic Chemistry, Bulgarian Academy of Sciences, Acad. G. Bonchev Str. Blvd. 11, Sofia, 1113, Bulgaria; Department of Chemistry & Biochemistry, Florida State University, Tallahassee, FL 32306-4390, United States	7	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019880488&doi=10.1016%2fj.inoncrysol.2017.05.021&partnerID=40&md5=89c48acb3f6330f801a7b80118b6100a
609	Wearable IoT sensor based healthcare system for identifying and controlling chikungunya virus	Department of Computer Science and Engineering, GNDU, Regional Campus, Gurdaspur, Punjab, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020435091&doi=10.1016%2fj.compind.2017.05.006&partnerID=40&md5=69ffca4fc399cc67fbefb3723655ab7e
610	Energy efficient chain based routing protocol for underwater wireless sensor networks	Research Scholar, Department of Computer Applications, IKG Punjab Technical University, Kapurthala, 144601, India; School of Computer Science & Engineering, Kyungpook National University, Daegu, 702-701, South Korea; Department of ECE, GNDU Regional Campus, Jalandhar, Punjab, India; Mohali, Punjab, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85011031849&doi=10.1016%2fj.inca.2017.01.011&partnerID=40&md5=2c85d23ad5f3a738fb4276259bfc77b9
611	A lysosome targetable fluorescent probe for endogenous imaging of hydrogen peroxide in living cells	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Zoology, Guru Nanak Dev University, India	7	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016479386&doi=10.1039%2fc6cc09127j&partnerID=40&md5=9eb27aaafa6c1ccdae07174c647a61bc
612	Pulses: an overview	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	1	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85012866883&doi=10.1007%2fs13197-017-2537-4&partnerID=40&md5=b1db06583758a99e1608e4013aeee04a
613	Optimization of sentiment analysis using machine learning classifiers	Department of Computer Science, Guru Nanak Dev University, Amritsar, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85037743508&doi=10.1186%2fs13673-017-0116-3&partnerID=40&md5=07af5bbdab781474c529ccbeb06dffd3
614	A cost effective 100 Gbps hybrid MDM–OCDMA–FSO transmission system under atmospheric turbulences	PTU Kapurthala, Jalandhar, Punjab, India; Department of ECE, KCET, Amritsar, Punjab, India; Department of Electronics, GNDU RC Jalandhar, Jalandhar, Punjab, India; InterNetworks Research Laboratory, School of Computing, Universiti Utara Malaysia, Sintok, Malaysia	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017432330&doi=10.1007%2fs11082-017-1019-2&partnerID=40&md5=5b254beb38840aa6eae0f6bf20544981

615	Structural and luminescence properties of samarium doped lead alumino borate glasses	Department of Physics, BBK DAV College for Women, Amritsar, Punjab 143001, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143001, India; Department of Mathematics, Guru Nanak Dev University, Amritsar, Punjab 143001, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027996311&doi=10.1016%2fj.optmat.2017.08.015&partnerID=40&md5=ff742d613e4e13eed39cfd91aed6234f
616	Can sensors collect big data? an energy-efficient big data gathering algorithm for a WSN	Department of Computer Science, I. K. Gujral Punjab Technical University, Jalandhar, 148107, India; School of Computer Science and Engineering, Kyungpook National University, Daegu, 41566, South Korea; Department of Electronics and Communication Engineering, CGC Technical Campus, Jhenjeri, Chandigarh, 140307, India; Department of Electronics and Communication Engineering, GNDU Regional Campus, Jalandhar, 144007, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029393394&doi=10.1109%2fTII.2017.2656899&partnerID=40&md5=afea112fed493cc7c50ee251df983e91
617	Elucidation of phase evolution, microstructural, Mössbauer and magnetic properties of Co ₂ [Sbnd]Al ₃ +doped M-type Ba[Sbnd]Sr hexaferrites synthesized by a ceramic method	Department of Electronics and Communication Engineering, Yadavindra College of Engineering, Punjabi University Guru Kashi Campus, Talwandi Sabo, Punjab, India; Department of Electronics and Communication Engineering, Rayat Bahra Institute of Engineering and Nanotechnology, Hoshiarpur, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Electronics and Communication Engineering, I.K.G. Punjab Technical University, Kapurthla, India; Department of Physics, Zagazig Universit, Zagazig, Egypt; Department of Physics, King Abdul Aziz, Jeddah, Saudi Arabia; Department of Physics, Najran University Najran, Saudi Arabia; Reactor Physics Department, NRC, Atomic Energy Authority, Abou Zabaal, Cairo, Egypt; Department of Physics, University School of Sciences, Gujarat University, Ahmedabad, Gujrat, India; Department of Physics and Materials Science, University of Memphis, United States; Department of Physics, Vivekanand College, Aurangabad, Maharashtra, India; Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai, 400 085, India	13	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006467155&doi=10.1016%2fj.jallcom.2016.10.237&partnerID=40&md5=de491f1ec5246d77bf6ae34d3ff8826b
618	An intelligent and secure system for predicting and preventing Zika virus outbreak using Fog computing	Computer Section, Guru Nanak Dev University, Amritsar, Punjab, India; I. K. Gujral Punjab Technical University, Kapurthala, Punjab, India; Department of Computer Science and Engineering, Beant College of Engineering and Technology, Gurdaspur, Punjab, India; Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus, Gurdaspur, Punjab, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85008194239&doi=10.1080%2f17517575.2016.1277558&partnerID=40&md5=73ced012226eb4ca881c0beecf7a563f
619	Recent insights into synthetic β -carboline with anti-cancer activities	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Applied Chemistry, Giani Zail Singh Campus College of Engineering & Technology, MRSPTU, Dabwali Road, Bathinda, 151001, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020079605&doi=10.1016%2fj.ejmech.2017.05.059&partnerID=40&md5=444c43aba42460395da2e0b4f9224fb3
620	Structural, magnetic and microwave absorption behavior of Co-Zr substituted strontium hexaferrites prepared using tartaric acid fuel for electromagnetic interference suppression	Department of Chemistry, Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84986300624&doi=10.1016%2fj.jmmm.2016.08.095&partnerID=40&md5=84c894bb55aecf7cd8d166ecc2dc4c16
621	Castasterone and citric acid treatment restores photosynthetic attributes in Brassica juncea L. under Cd(II) toxicity	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botany, DAV University, Sarmastpur, Jalandhar, Punjab 144012, India	7	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026743766&doi=10.1016%2fj.ecoenv.2017.07.067&partnerID=40&md5=72cbff3acc791e28d5e167e5a0257ed1
622	A comprehensive health assessment framework to facilitate IoT-assisted smart workouts: A predictive healthcare perspective	Guru Nanak Dev University, Regional Campus, Gurdaspur, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85021057118&doi=10.1016%2fj.compind.2017.06.009&partnerID=40&md5=c27764195af50b257f9eb39f6917e739
623	In-silico analysis of cis-acting regulatory elements of pathogenesis-related proteins of Arabidopsis thaliana and Oryza sativa	Department of Botanical and Environmental sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India; Planning Project Monitoring and Evaluation Cell, CSIR, Institute of Himalayan Bioresource Technology, Palampur, Himachal Pradesh, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029539177&doi=10.1371%2fjournal.pone.0184523&partnerID=40&md5=a36199a9d39b270072c428e37b3b104c

624	An updated patent review: xanthine oxidase inhibitors for the treatment of hyperuricemia and gout (2011-2015)	Department of Pharmaceutical Chemistry, ISF College of Pharmacy, Moga, India; Department of Pharmacy, Rayat-Bahara group of Institutes, Hoshiarpur, India; Department of Pharmacy, DIT University, Dehradun, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India	6	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85011965787&doi=10.1080%2f13543776.2017.1261111&partnerID=40&md5=cb3cb7aa2c6aa21125ef3f80070044f1
625	4-Aminoquinoline-ferrocenyl-chalcone conjugates: Synthesis and anti-plasmodial evaluation	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Medicine, University of California, San Francisco, CA, United States	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988642836&doi=10.1016%2fj.eimech.2016.09.044&partnerID=40&md5=-617e38e037edfd1bedf03ec1e6820e49
626	Instrumental characterization of organic wastes for evaluation of vermicompost maturity	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; PG Department of Zoology, Khalsa College Amritsar, Punjab, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032612768&doi=10.1186%2fs40543-017-0112-2&partnerID=40&md5=e1147b970023d59b59775de0fd5c3fe5
627	A fuzzy approach for an IoT-based automated employee performance appraisal	Guru Nanak Dev University, Amritsar, Punjab, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85037038741&partnerID=40&md5=a076febce10d053c43e40c8b8315ca2
628	Ferrocene chromophores continue to inspire. Fine-tuning and switching of the second-order nonlinear optical response	Department of Chemistry, Centre of Advance Study-II, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemistry, University of Leuven, Celestijnenlaan 200D, Leuven, B-3001, Belgium	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020256568&doi=10.1016%2fj.ccr.2017.05.008&partnerID=40&md5=e898335fa9b7b8f3e86c2480d12b6298
629	Comparison of color, anti-nutritional factors, minerals, phenolic profile and protein digestibility between hard-to-cook and easy-to-cook grains from different kidney bean (<i>Phaseolus vulgaris</i>) accessions	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85012929246&doi=10.1007%2fs13197-017-2538-3&partnerID=40&md5=aece44433fb90344be9a994ba2bcd629
630	Self-assembly of aromatic α -amino acids into amyloid inspired nano/micro scaled architects	Centre for Nanoscience and Nanotechnology, Panjab University, Sector 14, Chandigarh, 160014, India; Department of Chemistry & Centre for Advanced Studies in Chemistry, Panjab University, Sector 14, Chandigarh, 160014, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143040, India; University Institute of Pharmaceutical Sciences, Panjab University, Chandigarh, 160014, India; Department of Applied Sciences, University Institute of Engineering and Technology (U.I.E.T.), Panjab University, Sector 25, Chandigarh, 160014, India	8	2017	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85007275680&doi=10.1016%2fj.msec.2016.11.117&partnerID=40&md5=ea75823aada4e382c60e21f2bece0a2
631	Effect of partial replacement of wheat flour with varying levels of flaxseed flour on physicochemical, antioxidant and sensory characteristics of cookies	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85007285603&doi=10.1016%2fj.bcdf.2016.12.002&partnerID=40&md5=42157274e79b8d6f866fac4a2584aa4f
632	Structural, thermal, optical and photo-luminescent properties of barium tellurite glasses doped with rare-earth ions	Sensors and Glass Physics Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Institute of General and Inorganic Chemistry, Bulgarian Academy of Sciences, Acad. Georgi Bonchev Str., Bld. 11, Sofia, 1113, Bulgaria	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029551213&doi=10.1016%2fj.inoncrsol.2017.09.025&partnerID=40&md5=38fc9a706c64955bc267e7a02d8c1f36
633	Secure multi-factor remote user authentication scheme for Internet of Things environments	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab 144001, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018704464&doi=10.1002%2fdac.3323&partnerID=40&md5=96dbe6476c829af6c068288b8ca4a2a1
634	Perturbed microRNA expression by <i>Mycobacterium tuberculosis</i> promotes macrophage polarization leading to pro-survival foam cell	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Biochemistry, School of Life Sciences, Central University of Rajasthan, Ajmer, Rajasthan, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014386847&doi=10.3389%2fj.fimmu.2017.00107&partnerID=40&md5=fbfcf89183cab0bcc5cbc982227ea46
635	Brassinosteroids: A promising option in deciphering remedial strategies for abiotic stress tolerance in rice	Department of Biotechnology, Guru Nanak Dev University, Amritsar, India; Vlaams Instituut voor Biotechnologie-UGent Center for Plant Systems Biology, Ghent University, Ghent, Belgium	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041593132&doi=10.3389%2ffpls.2017.02151&partnerID=40&md5=219c35044ee51172bbd9db7c390eab9f
636	Optical and spectroscopic properties of neodymium doped cadmium-sodium borate glasses	Department of Physics, BBK DAV College for Women, Amritsar, Punjab 143001, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143001, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018379990&doi=10.1016%2fj.optlastec.2017.04.016&partnerID=40&md5=337bceacc9376d32236e4863e358b78f
637	Optical and Multiferroic Properties of Gd-Co Substituted Barium Hexaferrite	Department of Physics, Lovely Professional University, Phagwara, Punjab 144411, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026472571&doi=10.1002%2fcrat.201700098&partnerID=40&md5=7c0e25a7ceedfc5e18963371b4b1eeb
638	A comparative study of monoterpenoids and phenylpropanoids from essential oils against stored grain insects: acute toxins or feeding deterrents	Insect Biopesticide Research Centre, 30 Parkash Nagar, Jalandhar, 144003, India; Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84982106599&doi=10.1007%2fs10340-016-0800-5&partnerID=40&md5=44fa332e741942f40aae70feb726a829

639	Structural, magnetic and microwave properties of exchange coupled and non-exchange coupled BaFe12O19/NiFe2O4 nanocomposites	School of Physics and Materials Science, Thapar University, Patiala, Punjab 147004, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026414329&doi=10.1016%2fi.iallcom.2017.07.220&partnerID=40&md5=899729d63f3dbbd7d63764b6bea1bbe3
640	Evaluation of air pollution tolerance index and anticipated performance index of plants and their application in development of green space along the urban areas	Department of Botanical and Environmental Sciences, Guru Nanak Dev University Amritsar, Amritsar, Punjab 143005, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85021269595&doi=10.1007%2fs11356-017-9500-9&partnerID=40&md5=cbe821f592ae4024f983f9a7c2dd8f1e
641	24-epibrassinolide stimulates imidacloprid detoxification by modulating the gene expression of Brassica juncea L	Guru Nanak Dev University, Plant Stress Physiology Lab, Department of Botanical and Environmental Sciences, Amritsar, 143005, India; Guru Nanak Dev University, Department of Molecular Biology and Biochemistry, Amritsar, 143005, India	6	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014075541&doi=10.1186%2fs11356-017-1003-9&partnerID=40&md5=974a1fcb8d1261447b466cad403b9b9b
642	Investigation on structural and microwave absorption property of Co2+and Y3+substituted M-type Ba-Sr hexagonal ferrites prepared by a ceramic method	Department of Electronics and Communication Engineering, Yadavindra College of Engineering, Punjabi University Guru Kashi Campus, Talwandi SaboPunjab, India; Department of Electronics and Communication Engineering, Rayat Bahra Institute of Engineering and Nanotechnology, Hoshiarpur, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Electronics and Communication Engineering, I.K.G. Punjab Technical University, Kapurthla, India; Department of Physics, University School of Sciences, Gujarat University, Ahmedabad, Gujrat 380 009, India	6	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006365081&doi=10.1016%2fi.iallcom.2016.09.251&partnerID=40&md5=60cfa9b3e60bbc6fd005128d93c1f1
643	4-Aminoquinoline-chalcone/-N-acetylpyrazoline conjugates: Synthesis and antiplasmodial evaluation	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Medicine, University of California, San Francisco, CA, United States; Department of Chemistry, DAV College, Amritsar, 143001, India	6	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026404382&doi=10.1016%2fi.eimech.2017.07.041&partnerID=40&md5=f527a7000576b3b7fc7886cfa2045034
644	IoMT: A Reliable Cross Layer Protocol for Internet of Multimedia Things	Department of Computer Science, S.S.D. Women's Institute of Technology, Bathinda, 151001, India; School of Computer Science and Engineering, Kyungpook National University, Buk-gu, 702-701, South Korea; Department of Electrical and Computer Engineering, CGC Technical Campus, Mohali, 140307, India; Department of Electrical and Computer Engineering, GNDU Regional Campus, Jalandhar, 144022, India; Department of Electrical and Computer Engineering, West Virginia University Institute of Technology, Montgomery, WV 25136, United States	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027874200&doi=10.1109%2fJIOT.2017.2671460&partnerID=40&md5=35830686297ac378c77c90d4f8be9ebc
645	Preparation and characterization of Ag-doped In2O3 nanoparticles gas sensor	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020738138&doi=10.1016%2fi.cplett.2017.06.008&partnerID=40&md5=d3c7b1fa7b76099581cb74cc7b5d7e6d
646	Corporate governance and risk reporting: Indian evidence	Department of Commerce, Guru Nanak Dev University, Amritsar, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017630799&doi=10.1108%2fMAJ-03-2016-1341&partnerID=40&md5=9441d7223c769832e0e7ec0561607522
647	Excitation-dependent photoluminescence from WS2 nanostructures synthesized via top-down approach	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85021285244&doi=10.1007%2fs10853-017-1303-3&partnerID=40&md5=f0ea0adbe0be413a575e8187c04cb6ab
648	Ionic Self-Assembled Platform of Perylenediimide–Sodium Dodecylsulfate for Detection of Spermine in Clinical Samples	Department of Chemistry, UGC Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemical Sciences, Punjab Technical University, Kapurthla-, 144601, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016590012&doi=10.1002%2fasia.201700120&partnerID=40&md5=04238f80c904070f3366be9f26df26a7
649	Recent advances in synthetic facets of immensely reactive azetidines	Department of Chemistry, Hindu College, Amritsar, 143005, India; Department of Chemistry, Baring Union Christian College, Batala, 143505, India; Department of Chemistry, Khalsa College, Amritsar, 143005, India; Department of Chemistry, Guru Nanak Dev University, Amritsar-Punjab, 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030263086&doi=10.1039%2fc7ra08884a&partnerID=40&md5=7d16b1f8ec57ac89c1cded12969169ff
650	Structural, dielectric and magnetic properties of BaFe12-xAlxO19 hexaferrite thick films	School of Physics and Materials Science, Thapar University, Patiala, Punjab 147004, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020413331&doi=10.1016%2fj.immm.2017.05.087&partnerID=40&md5=de1f71d5097de749c0e0554cad9ae841

651	Differential distribution of amino acids in plants	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Botany, DAV University, Sarmastpur, Jalandhar, India; Department of Botany and Microbiology, Faculty of Science, King Saud University, Riyadh, 11451, Saudi Arabia; Department of Botany, S.P. College, Srinagar, Jammu and Kashmir 190001, India	6	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015229447&doi=10.1007%2fs00726-017-2401-x&partnerID=40&md5=5412e763d75c90030a344fad9edfe1ad
652	Ultrasound assisted extraction of polyphenols and their distribution in whole mung bean, hull and cotyledon	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Food Engineering, I.K.G. Punjab Technical University, Kapurthala, Punjab 144603, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991051964&doi=10.1007%2fs103197-016-2356-z&partnerID=40&md5=3f6e47b74e990bcd70cff89dfefb2aeb
653	Modulation of physico-chemical, magnetic, microwave and electromagnetic properties of nanocrystalline strontium hexaferrite by Co-Zr doping synthesized using citrate precursor sol-gel method	Department of Chemistry, Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India; Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India	6	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84992144055&doi=10.1016%2fj.ceramint.2016.09.199&partnerID=40&md5=b7bb7df414c47650725865b4ec22c29a
654	Stark Assessment of Lifestyle Based Human Disorders Using Data Mining Based Learning Techniques	Dept. of Computer Sc. and App., DAV University, Jalandhar, India; DCS, GNDU, Amritsar, Punjab, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031673229&doi=10.1016%2fj.irbm.2017.09.002&partnerID=40&md5=08dc370631cc29a79879179fc14bbe02
655	Utilization of watermelon pulp for lycopene extraction by response surface methodology	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143 005, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017264565&doi=10.1016%2fj.foodchem.2017.04.038&partnerID=40&md5=8056ad931f403f0f7abda36af76ea512
656	Physical and cooking characteristics of some Indian kidney bean (<i>Phaseolus vulgaris</i> L.) cultivars	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Food Science and Technology, University of Kashmir, Srinagar, Hazratbal 190 006, India; Department of Food Technology, Islamic University of Science and Technology, Awantipora, Kashmir 190 221, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020252346&doi=10.1016%2fj.issas.2014.12.002&partnerID=40&md5=f7170ec2835be67e3bc31dcfa02a267d
657	Effect of Extrusion on Physicochemical Properties, Digestibility, and Phenolic Profiles of Grit Fractions Obtained from Dry Milling of Normal and Waxy Corn	Dept. of Food Science and Technology, Guru Nanak Dev Univ., Amritsar, 143005, India; Dept. of Food Science and Technology, Punjab Agriculture Univ., Ludhiana, 141005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016623866&doi=10.1111%2f1750-3841.13692&partnerID=40&md5=29f97c5fe3992ee2b073865fe4f5367b
658	Synthesis, screening and docking of fused pyrano[3,2-d]pyrimidine derivatives as xanthine oxidase inhibitor	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Lloyd Institute of Management and Technology, Greater Noida, UP, India	10	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014779304&doi=10.1016%2fj.eimech.2017.03.002&partnerID=40&md5=ee6babcb576dfb6a35976b260affae42
659	Structural properties and electrical transport characteristics of modified lithium borate glass ceramics	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Physics, Indira Gandhi University Meerpur, Rewari, 123401, India; Department of Physics, Maharishi Dayanand University, Rohtak, 124001, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84998893242&doi=10.1016%2fj.iallcom.2016.11.230&partnerID=40&md5=cdb1e106fba703a0130f3bc89dd6a48
660	Energy efficient secured routing protocol for MANETs	Department of Computer Science and Engineering, KCET, Amritsar (IKG-PTU, Kapurthala), Amritsar, India; Department of Electronics and Communication Engineering, BCET, Gurdaspur, Gurdaspur, India; Department of Computer Science and Engineering, GNDU, Amritsar, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028263833&doi=10.1007%2fs11276-015-1176-9&partnerID=40&md5=c981a25972c862aa07d98d88c24d9910
661	Effect of thickness on microwave absorptive behavior of La-Na doped Co-Zr barium hexaferrites in 18.0–26.5 GHz band	D.A.V. Institute of Engineering and Technology, Jalandhar, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84992017540&doi=10.1016%2fj.immm.2016.09.126&partnerID=40&md5=0d65d359726a2bfd7303f19b867bc51b
662	Structural, optical, magnetic and antibacterial study of pure and cobalt doped ZnO nanoparticles	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India; Department of Electronics and Communication Engineering, Arni University, Indora, H.P., India; Department of Electronics Sciences, Jammu University, Jammu, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991104775&doi=10.1007%2fs10854-016-5843-0&partnerID=40&md5=129e09647da38e53e333987d74fd4f33

663	Zinc application mitigates the adverse effects of nacl stress on mustard [brassica juncea (L.) czern & coss] through modulating compatible organic solutes, antioxidant enzymes, and flavonoid content	Department of Botany and Microbiology, Faculty of Science, King Saud University, Riyadh, Saudi Arabia; Department of Botany, S.P. College, Srinagar, Jammu and Kashmir, India; School of Studies in Botany, Jiwaji University, Gwalior, Madhya Pradesh, India; Institute of Landscape Biogeochemistry, Leibniz Centre for Agricultural Landscape Research, Müncheberg, Germany; Plant Stress Physiology Laboratory, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Agronomy, College of Agriculture, University of Sargodha, Sargodha, Pakistan	7	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051625111&doi=10.1080%2f17429145.2017.1385867&partnerID=40&md5=6be7d8c3b544f4ae0f84c1019eee660d
664	Thickness and Composition Tailoring of K- and Ka-Band Microwave Absorption of BaCoxTixFe(12–2x)O19 Ferrites	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Electronics and Communication Engineering, Rayat and Bahra Institute of Engineering and Technology, Hoshiarpur, Punjab, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84992435546&doi=10.1007%2f11664-016-5059-3&partnerID=40&md5=fe0fc7324bdf00c665cb1abb420b6d78
665	A naphthalimide-based solid state luminescent probe for ratiometric detection of aluminum ions:: In vitro and in vivo applications	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, India; Department of Zoology, Guru Nanak Dev University, Amritsar, India	7	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85035143504&doi=10.1039%2fc7cc07996f&partnerID=40&md5=171a6171a9ceeaeca4861ad5ab18487a
666	Arnica montana L. – a plant of healing: review	Guru Gobind Singh College of Pharmacy, Yamunanagar, Haryana, India; I.K. Gujral Punjab Technical University, Jalandhar, Punjab, India; Department of Pharmaceutical Sciences, Khalsa College, Amritsar, Punjab, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017470597&doi=10.1111%2fjph.12724&partnerID=40&md5=3319d1c55e74de9a5db264f409eac3a0
667	Metal-Free Organocatalytic Oxidative Ugi Reaction Promoted by Hypervalent Iodine	Department of Chemistry, Mohanlal Sukhadia University, Udaipur, 313001, India; Department of Chemistry, U.G.C. Centre of Advance Studies in Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Indian Institute of Technology Delhi, New Delhi, 110016, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019393463&doi=10.1021%2facs.joc.7b00594&partnerID=40&md5=feb2f0709763ea12d943300d8899b445
668	Polythiophene-Encapsulated Bimetallic Au-Fe3O4 Nano-Hybrid Materials: A Potential Tandem Photocatalytic System for Nondirected C(sp2)-H Activation for the Synthesis of Quinoline Carboxylates	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027247851&doi=10.1021%2facscatal.6b02681&partnerID=40&md5=26ba86ed621e88cde4f9358aa9c95803
669	A novel approach for smart cities in convergence to wireless sensor networks	Research Scholar, IKG Punjab Technical University, (Pb.), Jalandhar, Punjab, India; BBSBEC, Fatehgarh Sahib, India; Guru Nanak Dev University, Jalandhar, India; Dept. of Computer Sci, S.S.D.Women's Institute of Technology, (Pb.), Bathinda, Punjab, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028616605&doi=10.1016%2fj.scs.2017.08.005&partnerID=40&md5=5a8612b5eaa562da24dd210ad1a8a6d
670	Chiral Squaramide-Catalyzed Enantioselective Decarboxylative Addition of β -Keto Acids to Isatin Imines	Department of Chemistry, U.G.C. Centre of Advance Studies in Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Indian Institute of Technology Ropar, Nangal Road, Rupnagar, 140001, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018543383&doi=10.1002%2fadsc.201700011&partnerID=40&md5=163cb4bacbdab85ac1ab934d2e10ab35
671	TNF- α and IL-6 inhibitors: Conjugates of N-substituted indole and aminophenylmorpholin-3-one as anti-inflammatory agents	Department of Chemistry, UGC Sponsored Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029444872&doi=10.1016%2fj.eimech.2017.09.003&partnerID=40&md5=4a3da0b580bf1abea56a20bf41673fa6
672	Perylene diimide-based organic π -motif for differentiating CN- and F- ions by electron-transfer and desilylation mechanisms: Applications to complex logic circuits	Department of Chemistry, UGC Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemical Sciences, IKG Punjab Technical University, Kapurthala, Punjab 144601, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029232520&doi=10.1039%2fc7nj02380d&partnerID=40&md5=8a3c1fb0df0c894ba88d5b2f622b5cc6
673	Fluorescent probes for hydrogen polysulfides (H2S:N, n $\geq$ 1): From design rationale to applications	Department of Chemistry, UGC Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027494561&doi=10.1039%2fc7ob01615h&partnerID=40&md5=f66256c8a3100356209b73ccdd670952
674	Potential of oleaginous yeast Trichosporon sp., for conversion of sugarcane bagasse hydrolysate into biodiesel	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Sardar Swaran Singh National Institute of Bio-Energy, Kapurthala, Punjab 144601, India; Institute of Physics of Sao Carlos, University of Sao Paulo, Sao Carlos, Sao Paulo, Brazil	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018767267&doi=10.1016%2fj.biortech.2017.03.155&partnerID=40&md5=f2ce080038336c770fa58993a464a2c5

675	Improved performance of dye sensitized solar cell via fine tuning of ultra-thin compact TiO2 layer	Technical Physics Division, Bhabha Atomic Research Center, Mumbai, 400085, India; Material Science Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	8	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-8502000679&doi=10.1016%2fj.solmat.2017.05.013&partnerID=40&md5=3483a7849327b030fb1bd759242e164a
676	Effect of incorporating finger millet in wheat flour on mixolab behavior, chapatti quality and starch digestibility	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; School of Public Health, Curtin Health Innovation Research Institute, Curtin University, Perth, Western Australia, Australia	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016437186&doi=10.1016%2fj.foodchem.2017.03.118&partnerID=40&md5=a647dfa06721d6a2c87f2b4bbdb86743
677	Nicotine-based surface active ionic liquids: Synthesis, self-assembly and cytotoxicity studies	Department of Chemistry, UGC-centre for Advance Studies – II, Guru Nanak Dev University, Amritsar, 143005, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, DAV College, Chandigarh, 160011, India; Department of Chemistry and Chemical Engineering, Applied Surface Chemistry Kemivagen 10, Chalmers University of Technology, Göteborg, SE-412 96, Sweden	8	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85013677742&doi=10.1016%2fj.jcis.2017.02.021&partnerID=40&md5=e7c0bae57b5d679daaad4f2ef551f41d
678	Withania somnifera as a potential anxiolytic and immunomodulatory agent in acute sleep deprived female Wistar rats	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Anatomy and Cell Biology, University of Illinois at Chicago, 808 S. Wood St., Rm 578 MC 512, Chicago, IL 60612, United States	8	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006856512&doi=10.1007%2fs11010-016-2900-1&partnerID=40&md5=220a88c33e57d431a95878cf0c2d093c
679	Improved Cl2 sensing characteristics of reduced graphene oxide when decorated with copper phthalocyanine nanoflowers	Material Science Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Satyam Institute of Engineering and Technology, Ram Tirath Road, Amritsar, 143107, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85021642272&doi=10.1039%2fc7ra02212c&partnerID=40&md5=5a63093d6029cb116cf728f9a6fd0bb9
680	Hexaphenylbenzene appended AIEE active FRET based fluorescent probe for selective imaging of Hg2+ ions in MCF-7 cell lines	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	7	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018603005&doi=10.1016%2fj.snb.2017.04.074&partnerID=40&md5=7e40833cffc40ad48f24be081bab79ee
681	Feasibility and modelling for convergence of optical-wireless network – A review	I. K. Gujral Punjab Technical University, Jalandhar-Kapurthala Highway, Near Pushpa Gujral Science City, Kapurthala, Punjab 144603, India; Shaheed Bhagat Singh College of Engineering & Technology, Moga Road NH-95, Ferozepur, Punjab 152004, India; Khalsa College of Engineering & Technology, C Block, Ranjit Avenue, Amritsar, Punjab 143001, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028697586&doi=10.1016%2fj.aeue.2017.06.027&partnerID=40&md5=90872c66f9ee27ec8db0768921a89edc
682	B[sbnd]O and Te[sbnd]O speciation in bismuth tellurite and bismuth borotellurite glasses by FTIR, 11B MAS-NMR and Raman spectroscopy	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; High Pressure and Synchrotron Radiation Physics Division, Bhabha Atomic Research Centre, Trombay, Mumbai, Maharashtra 400085, India; Department of Chemistry and Process & Recourse Engineering, University of Cantabria, Spain; Chemistry & Biochemistry Department, Florida State University, Tallahassee, FL 32306, United States	7	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019102591&doi=10.1016%2fj.inoncrvsol.2017.04.028&partnerID=40&md5=7e7c5fc13708bcd4a09767294a855606
683	A study of microwave absorbing properties in Co–Gd doped M-type Ba–Sr hexaferrites prepared using ceramic method	Department of Electronics and Communication Engineering, Rayat Bahra Institute of Engineering and Nanotechnology Hoshiarpur, Hoshiarpur, Punjab, India; Department of Electronics and Communication Engineering, Yadavindra college of Engineering, Punjabi University Guru Kashi Campus, Talwandi Sabo, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Electronics and Communication Engineering, I.K.G. Punjab Technical University, Kapurthla, India; Department of Physics, University school of sciences, Gujarat University, Navrangpura, Ahmedabad, Gujrat 380009, India	6	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018459310&doi=10.1007%2fs10854-017-7006-3&partnerID=40&md5=e44a99a3123a8189c6f8d27e69155dc1
684	Effect of toasting on physical, functional and antioxidant properties of flour from oat (Avena sativa L.) cultivars	Department of Food Science and Technology, Chaudhary Devi Lal University, Sirsa, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020283060&doi=10.1016%2fj.jssas.2015.06.004&partnerID=40&md5=7705e22a72fdc87d3645fe37ff72bcc9
685	Effectiveness of web-based social sensing in health information dissemination - A review	Department of Computer Science and Engineering, Guru Nanak Dev University, Jalandhar, RC, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84969269041&doi=10.1016%2fj.tele.2016.04.012&partnerID=40&md5=2fdcf73e9a973df47024910d83d3da9

686	Extraordinarily soft, medium-hard and hard Indian wheat varieties: Composition, protein profile, dough and baking properties	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Division of Genetics, Indian Agricultural Research Institute, New Delhi, 110012, India	7	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028502459&doi=10.1016%2fj.foodres.2017.08.050&partnerID=40&md5=5d0ed4fded44c18fc2624062be1d7164
687	Assessment of arsenic content in soil, rice grains and groundwater and associated health risks in human population from Ropar wetland, India, and its vicinity	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020496134&doi=10.1007%2fs11356-017-9401-y&partnerID=40&md5=639318fbfa22c891fad97f393208ce47
688	Analysis on bioaccumulation of metals in aquatic environment of Beas River Basin: A case study from Kanjli wetland	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066619610&doi=10.1002%2f2017GH000062&partnerID=40&md5=85f6b5b27b74804f57e43c0508d80834
689	Withania somnifera leaf alleviates cognitive dysfunction by enhancing hippocampal plasticity in high fat diet induced obesity model	Guru Nanak Dev University, Medical Biotechnology Laboratory, Department of Biotechnology, Amritsar, Punjab, 143005, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014390312&doi=10.1186%2fs12906-017-1652-0&partnerID=40&md5=86ef05c7bf3d48f490ec174dd644d480
690	A tabulated review on distribution of heavy metals in various plants	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; High Altitude Biology Division, CSIR Institute of Himalayan Bioresource Technology (Council for Scientific and Industrial Research), Palampur, Himachal Pradesh 176061, India	6	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84990978895&doi=10.1007%2fs11356-016-7747-1&partnerID=40&md5=b53b7f67e3d47f1aa17fe79bf772fffe
691	Deposition, characterization and gas sensors application of RF magnetron-sputtered terbium-doped ZnO films	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Materials Science and Engineering, University of Delaware, Newark, DE 19716, United States; Department of Chemistry and Biochemistry, University of Delaware, Newark, DE 19716, United States	8	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016556243&doi=10.1007%2fs10853-017-1059-9&partnerID=40&md5=b2c8559d7815d94019253e86e39a2de8
692	Structural and magnetic properties of Co2+-W4+ions doped M-type Ba-Sr hexaferrites synthesized by a ceramic method	Department of Electronics and Communication Engineering, Rayat Bahra Institute of Engineering and Nanotechnology, Hoshiarpur, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Electronics and Communication Engineering, I.K.G. Punjab Technical University, Kapurthla, Punjab, India; Department of Physics, Zagazig University, Zagazig, Egypt; Department of Physics, King Abdul Aziz, Jeddah, Saudi Arabia; Department of Physics, University School of Sciences, Gujarat University, Navrangpura, Ahmedabad, Gujarat, India; Department of Physics and Materials Science, University of Memphis, United States; Department of Electronics and Communication Engineering, Yadavindra College of Engineering, Punjabi University Guru Kashi Campus, Talwandi Sabo, Punjab, India	10	2017	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006356723&doi=10.1016%2fj.iallcom.2016.10.192&partnerID=40&md5=4d5f37001403eebe4b75836d84871d01
693	Lanthanide (=Ce, Pr, Nd and Tb) ions substitution at calcium sites of hydroxyl apatite nanoparticles as fluorescent bio probes: Experimental and density functional theory study	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, UGC Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India	7	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019147171&doi=10.1016%2fj.ceramint.2017.05.029&partnerID=40&md5=959b160aa5e6af02c9586c4e9500b980
694	Self-focusing of Gaussian laser beam in weakly relativistic and ponderomotive cold quantum plasma	Department of Applied Science, Lyallpur Khalsa College of Engineering, Jalandhar, 144001, India; I. K. Gujral Punjab Technical University, Kapurthala, 144601, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143 005, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85008872277&doi=10.1063%2f1.4973615&partnerID=40&md5=e75610a79f788a658947178b51fd2aa5
695	Characterization of thermostable alkaline proteases from Bacillus infantis SKS1 isolated from garden soil	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85036534370&doi=10.1371%2fjournal.pone.0188724&partnerID=40&md5=fdabb573b32d5b00c8d9618cccebc764
696	Chemical, nutritional and phenolic composition of wheatgrass and pulse shoots	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85021248587&doi=10.1111%2fjifs.13498&partnerID=40&md5=9a224b2a81117bbbc63ff0404e57c87e
697	Calcination temperature effect on the microstructure and dielectric properties of M-type strontium hexagonal ferrites	Department of Physics, School of Chemical Engineering and Physical Sciences, Lovely Professional University, Phagwara, Punjab, 144411, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85025817387&doi=10.1063%2f1.4990306&partnerID=40&md5=3add497ccfcb15ddd28dedb071758e38

698	1H-1,2,3-triazole-tethered uracil-ferrocene and uracil-ferrocenylchalcone conjugates: Synthesis and antitubercular evaluation	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, India; UMR 8576 - UGSF - Unité de Glycobiologie Structurale et Fonctionnelle, University of Lille, Lille, France; CNRS, UMR 8576, Lille, France; CNRS, Centre d'étude d'agents Pathogènes et Biotechnologies pour la Santé, Université de Montpellier, Montpellier, France; INSERM, CPBS, Montpellier, France; Department of Applied Chemistry, Giani Zail Singh Campus College of Engineering and Technology, MRSPTU, Bathinda, Punjab, India	7	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006511655&doi=10.1111%2fcbdd.12908&partnerID=40&md5=536f1083a4a8c91ae221d3c1c07ee2f6
699	Microwave absorbing characteristics in Co ²⁺ and Al ³⁺ substituted Ba _{0.5} Sr _{0.5} CoxAlxFe _{12-2x} O ₁₉ hexagonal ferrite	Department of Electronics and Communication Engineering, Yadavindra College of Engineering, Punjabi University, Guru Kashi Campus, Talwandi Sabo, Punjab, India; Department of Electronics and Communication Engineering, Rayat Bahra Institute of Engineering and Nanotechnology, Hoshiarpur, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Electronics and Communication Engineering, I.K.G. Punjab Technical University, Kapurthla, India; Department of Physics, Gujarat University, Ahmedabad, Gujarat, India	6	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84990878464&doi=10.1007%2fs10854-016-5807-4&partnerID=40&md5=c9185c28a1d8c3fce7bde9ab8dd084b1
700	A highly selective fluorescent probe for Fe ³⁺ in living cells: a stress induced cell based model study	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	7	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85010661353&doi=10.1039%2fc6ob02209i&partnerID=40&md5=8825e291cb7a199f4dc7f053bd842f5e
701	Analysis of Brassinosteroids in Plants	Department of Horticulture, Zijiang Campus, Zhejiang University, 866 Yuhangtang Road, Hangzhou, 310058, China; Department of Botany and Environmental Sciences, Sri Guru Granth Sahib World University, Fatehgarh, Sahib, Punjab 140406, India; Institute of Biology, Faculty of Biology and Chemistry, University of Bialystok, Ciolkowskiego 1J, Bialystok, Poland; Department of Botanical and Environmental Science, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027964480&doi=10.1007%2fs00344-017-9732-4&partnerID=40&md5=6cfd4ad0e4f4727c6e7840072280a1d7
702	Effect of temperature on the magnetic properties of nano-sized M-type barium hexagonal ferrites	Department of Physics, School of Physical Sciences, Lovely Professional University, G. T. Road, Phagwara, Punjab, 144411, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85025816756&doi=10.1063%2f1.4990307&partnerID=40&md5=dcd970aa97a8e0f07aaaa96c754ac68a
703	Aqueous Leaf Extract of Withania somnifera as a Potential Neuroprotective Agent in Sleep-deprived Rats: a Mechanistic Study	Medical Biotechnology Laboratory, Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Pharmacology and Experimental Therapeutics, Boston University School of Medicine, Boston, MA 02118, United States	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962016025&doi=10.1007%2fs12035-016-9883-5&partnerID=40&md5=70d7b9e607555c8bf2d45fbb6912b745
704	Shock waves in dusty plasma with two temperature superthermal ions	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85013920615&doi=10.1007%2fs10509-017-3037-8&partnerID=40&md5=47e181504346680e358df661b24f9243
705	CNTs based improved chlorine sensor from non-covalently anchored multi-walled carbon nanotubes with hexa-decafluorinated cobalt phthalocyanines	Material Science Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Technical Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; CSIR-National Physical Laboratory, New Delhi, 115012, India	6	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032513276&doi=10.1039%2fc7ra08987b&partnerID=40&md5=33a5d3713f027bc88d8a0f76ea5561e7
706	Identification of cyclic lipopeptides produced by <i>Bacillus vallismortis</i> R2 and their antifungal activity against <i>Alternaria alternata</i>	Department of Microbiology, Guru Nanak Dev University, Amritsar, India; Department of Natural Products, National Institute of Pharmaceutical Education and Research, Mohali, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006062440&doi=10.1111%2fjam.13303&partnerID=40&md5=b50f066e6c36c9d2f333827427ccd569
707	Nano-crystalline Magnesium Substituted Cadmium Ferrites as X-band Microwave Absorbers	Department of Physics, Yashwantrao Chavan Institute of Science, Satara, MS 415001, India; Department of Physics, B.V.M.B.S.K. Kanya Mahavidyalaya, Kadegaon, Sangli, MS 415304, India; Department of Physics, K.R.P. Kanya Mahavidyalaya, Islampur, Distt. Sangli/MS 415409, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Electronics, Shivaji University, Kolhapur, MS 416004, India	6	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020381114&doi=10.1016%2fj.immm.2017.06.026&partnerID=40&md5=12ed305dc4c58d80271ade13f12ef7ba

708	Detailed investigation on structural, dielectric, magnetic and magnetodielectric properties of BiFeO ₃ -BaSrTiO ₃ solid solutions	Multifunctional Materials Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020307589&doi=10.1016%2fj.immm.2017.05.047&partnerID=40&md5=af762ba67462749bb2681dfc2113241b
709	Phenolic acid composition of flaxseed cultivars by ultra-performance liquid chromatography (UPLC) and their antioxidant activities: Effect of sand roasting and microwave heating	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030775504&doi=10.1111%2fifpp.13181&partnerID=40&md5=c17b0d62ea3168b3fb74ad896c46ab58
710	Vermicompost and vermiwash as supplement to improve seedling, plant growth and yield in Linum usitatissimum L. for organic agriculture	Department of Applied Sciences, I.K.G Punjab Technical University, Kapurthala, Punjab, India; Department of Zoology, Khalsa College, Amritsar, Punjab, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029029017&doi=10.1007%2fs40093-017-0168-4&partnerID=40&md5=a0beb65521999bbdbb02b1a552d74ea1
711	Origin of absorption peaks in reflection loss spectrum in Ku-frequency band of Co-Zr substituted strontium hexaferrites prepared using sucrose precursor	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; Department of Chemistry, Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84997471038&doi=10.1016%2fj.immm.2016.11.054&partnerID=40&md5=c12080317284d8dbbfbac1007583c0c5
712	Synergistic effect of 24-epibrassinolide and salicylic acid on photosynthetic efficiency and gene expression in brassica juncea L. Under Pb stress	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Botany, DAV University, Sarmastpur, Jalandhar, India	6	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85038445585&doi=10.3906%2fbiy-1707-15&partnerID=40&md5=d15fdb1bf18b8d3d43e45691fbd46c14
713	Forecasting the 2016 US presidential elections using sentiment analysis	Department of Computer Science, Guru Nanak Dev University, Amritsar, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85034245592&doi=10.1007%2f978-3-319-68557-1_36&partnerID=40&md5=756e29243d437463a7e9584b7d079c4f
714	Hexaphenylbenzene-based fluorescent aggregates for detection of zinc and pyrophosphate ions in aqueous media: Tunable self-assembly behaviour and construction of a logic device	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85022068043&doi=10.1039%2fc6nj03953g&partnerID=40&md5=1d8917db4b8c4e2a84e1af42564ff07f
715	Surface active ionic liquid induced conformational transition in aqueous medium of hemoglobin	Department of Chemistry, UGC-Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014350338&doi=10.1039%2fc7ra00075h&partnerID=40&md5=4dfb0e77f97d1e44a339bd30cb5b04e9
716	Temperature dependent selectivity towards ethanol and acetone of Dy ³⁺ -doped In ₂ O ₃ nanoparticles	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85008312200&doi=10.1016%2fj.cplett.2016.12.057&partnerID=40&md5=1c38033f80519a9fd426ea50907f71d9
717	Rheological and structural properties of starches from different Indian wheat cultivars and their relationships	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab, India	3	2017	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027008297&doi=10.1080%2f10942912.2017.1328439&partnerID=40&md5=6d9b37da5d5eecf1c99a98939672d916
718	Steady and dynamic shear rheology of starches from different oat cultivars in relation to their physicochemical and structural properties	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017514615&doi=10.1080%2f10942912.2017.1286504&partnerID=40&md5=b057ebb3ac1abfc3fca0b0831fe7bae1
719	Gelatin-Based Highly Stretchable, Self-Healing, Conducting, Multiadhesive, and Antimicrobial Ionogels Embedded with Ag ₂ O Nanoparticles	Department of Chemistry, UGC-Centre for Advance Studies II, Guru Nanak Dev University, Amritsar, 143005, India; AcSIR, CSIR-Central Salt and Marine Chemicals Research Institute, G. B. Marg, Bhavnagar, 364002, India; Department of Biotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, 140406, India	6	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027068008&doi=10.1021%2facsschemeng.7b00719&partnerID=40&md5=4dafcd07d7cd4363b93b881f67f4f1b6
720	A Highly Selective Fluorescent Probe for Detection of Hydrogen Sulfide in Living Systems: In Vitro and in Vivo Applications	Department of Chemistry, UGC Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, India; Department of Zoology, Guru Nanak Dev University, Amritsar, India	9	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85021435039&doi=10.1002%2fchem.201701124&partnerID=40&md5=b51706974341c64c0cd585ad8845ae98
721	Ameliorating imidacloprid induced oxidative stress by 24-epibrassinolide in Brassica juncea L	Plant Stress Physiology Lab, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botany and Environmental Science, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140407, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85021649411&doi=10.1134%2fS1021443717040124&partnerID=40&md5=dde1dd0edd6008b1712b282e62acc37d
722	Analysis of soil characteristics of different land uses and metal bioaccumulation in wheat grown around rivers: possible human health risk assessment	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India; Department of Zoology, Khalsa College, Amritsar, Amritsar, Punjab, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84951852515&doi=10.1007%2fs10668-015-9746-7&partnerID=40&md5=5f31cae6c739c5cbe6768ffdd78ff41c
723	Physicochemical aspects of the energetics of binding of sulphanilic acid with bovine serum albumin	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978428090&doi=10.1016%2fj.saa.2016.07.022&partnerID=40&md5=0b210a5ba397774282a663400800411c

724	Amelioration and degradation of pressmud and bagasse wastes using vermitechnology	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; P.G. Department of Zoology, Khalsa College Amritsar, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026405255&doi=10.1016%2fj.biortech.2017.07.093&partnerID=40&md5=2617e9fcb3c01dce21b0d96e7e1ee374
725	Secure internet of things-based cloud framework to control zika virus outbreak	Computer Section, Guru Nanak Dev University I. K. Gujral Punjab Technical University, India; Department of Computer Science and Engineering, Guru Nanak Dev University, India; Department of Computer Science and Engineering, Beant College of Engineering and Technology, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018808755&doi=10.1017%2fS0266462317000113&partnerID=40&md5=8ad83681be26337896b9f5817dfde23e
726	An Integrated Approach Using Chaotic Map & Sample Value Difference Method for Electrocardiogram Steganography and OFDM Based Secured Patient Information Transmission	Department of Electronics and Communication Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar, PIN:144011, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, PIN:144007, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031899193&doi=10.1007%2fs10916-017-0830-4&partnerID=40&md5=94884a5fff4aa3387ceb8f1b07191328
727	A secure remote user authentication scheme for smart cities e-governance applications	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059052084&doi=10.1007%2fs40860-017-0046-x&partnerID=40&md5=5464fd279894a14eb78da7a415bf10be
728	Widely used non-ionic surfactant 4-nonylphenol: showing genotoxic effects in various tissues of Channa punctatus	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015673544&doi=10.1007%2fs11356-017-8759-1&partnerID=40&md5=b099bb5e483d9bd19019b35f260ccfeb
729	Influence of non-starchy polysaccharides on barley milling behavior and evaluating bioactive composition of milled fractions	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84987989550&doi=10.1016%2fj.foodchem.2016.09.034&partnerID=40&md5=c03e756f65f7c6240d1f7b60f33be5d5
730	Synthesis and characterization of Gd-doped SnO2 nanostructures and their enhanced gas sensing properties	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006251415&doi=10.1016%2fj.ceramint.2016.11.021&partnerID=40&md5=be46dadbe9758648c83c6d972e97b7bfd
731	Seed pre-soaking with 24-epibrassinolide reduces the imidacloprid pesticide residues in green pods of Brassica juncea L.	Plant Stress Physiology Lab, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84958548141&doi=10.1080%2f02772248.2016.1146955&partnerID=40&md5=48dce1f9c10aab8fe3ef952e91190da5
732	'To kill many birds with one stone': Addressing half-adder, half-subtractor, demultiplexer, 2-to-4 decoder, comparator, keypad lock with unimolecular system	Department of Chemistry, UGC-Centre of Advance Studies-II, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemical Sciences, IK Gujral Punjab Technical University, Kapurthala, Punjab 144 601, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85013322077&doi=10.1016%2fj.snb.2017.01.204&partnerID=40&md5=71657d8105d7e1f0d283ffa5ba19b31
733	Co-application of 6-ketone type brassinosteroid and metal chelator alleviates cadmium toxicity in B. juncea L.	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Emerging Life Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991699787&doi=10.1007%2fs11356-016-7864-x&partnerID=40&md5=070131a0740421f88e2f15e072a862e1
734	Radionuclide contents and their correlation with radon-thoron exhalation in soil samples from mineralized zone of Himachal Pradesh, India	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Radiological Physics and Advisory Division, Bhabha Atomic Research Centre, Mumbai, 400085, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84982952617&doi=10.1007%2fs10967-016-4975-2&partnerID=40&md5=c988b2a31e28595031a985dce79ca053
735	Withania somnifera as a potential candidate to ameliorate high fat diet-induced anxiety and neuroinflammation	Guru Nanak Dev University, Department of Biotechnology, Amritsar, Punjab, 143005, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030845204&doi=10.1186%2fs12974-017-0975-6&partnerID=40&md5=d85909afd951d7d33488a0ff2c1d73a1
736	Genotoxicity monitoring of industrial wastes using plant bioassays and management through vermitechnology: A review	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; P.G. Department of Zoology, Khalsa College Amritsar Punjab 143005, India; Vermiculture Research Laboratory, Department of Zoology, D.D.U. Gorakhpur University, Gorakhpur, U.P. 273 009, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042083882&doi=10.1016%2fj.anres.2017.11.002&partnerID=40&md5=0d4c962bd55ec0761fe2b485bcd3cb33
737	Interoperability and portability approaches in inter-connected clouds: A review	Computer Engineering and Technology Department, Guru Nanak Dev University, India; Computer Science and Applications Department, Guru Nanak Dev University, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032791655&doi=10.1145%2f3092698&partnerID=40&md5=fc44351ddf88a38a27d9970eeb1044e3
738	ROS signaling in plants under heavy metal stress	Department of Botanical and Environment Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Dokuchaev Kharkiv National Agrarian University, Kharkiv, 62483, Ukraine	12	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85038221599&doi=10.1007%2f978-981-10-5254-5_8&partnerID=40&md5=cc0a1e7b963a0c14474cf164cf5c9673

739	Investigation of structural and magnetic properties of Tb–Ni-doped bismuth ferrite nanoparticles by auto-combustion method	Department of Physics, Lovely Professional University, Phagwara, Punjab 144411, India; Department of Physics, Himachal Pradesh University, Shimla, 171005, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85024477356&doi=10.1007%2f00339-017-1140-x&partnerID=40&md5=4ec558182a8697f092a86c883f5dc451
740	Intermittent fasting combined with supplementation with Ayurvedic herbs reduces anxiety in middle aged female rats by anti-inflammatory pathways	Medical Biotechnology Laboratory, Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018783350&doi=10.1007%2fs10522-017-9706-8&partnerID=40&md5=51b3d1b491b7585d4de4d384a2aca8ba
741	4-Nonylphenol induced DNA damage and repair in fish, Channa punctatus after subchronic exposure	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984698448&doi=10.1080%2f01480545.2016.1223096&partnerID=40&md5=49362f3572d484b1cbc8984c5ce8e560
742	Impact of sesquiterpenes from Inula racemosa (Asteraceae) on growth, development and nutrition of Spodoptera litura (Lepidoptera: Noctuidae)	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Natural Products, National Institute of Pharmaceutical Education and Research (NIPER), S.A.S. Nagar, Punjab, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84999737942&doi=10.1002%2fps.4429&partnerID=40&md5=17093abfedb4b9e74b2d589a85fa430c
743	Lab-on-a-Molecule elaboration for fluorescence based discrimination of commercial surfactants sodium dodecyl sulfate and sodium dodecylbenzenesulfonate	Department of Chemistry, UGC Centre for Advanced studies-I, Guru Nanak Dev University Amritsar143005, India	6	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991226441&doi=10.1016%2fj.snb.2016.10.041&partnerID=40&md5=d152569f23eaac9e3560035e11529608
744	Grinding assisted, column chromatography free decarboxylative carbon-carbon bond formation: Greener synthesis of 3, 3-disubstituted oxindoles	Department of Chemistry, U.G.C. Centre of Advance Studies in Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85008425389&doi=10.1016%2fj.tet.2016.12.070&partnerID=40&md5=9d656117cfa57221a13c4909ba7b9c01
745	Preparation and characterization of Eu-doped SnO2 nanostructures for hydrogen gas sensing	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991054934&doi=10.1007%2fs10854-016-5796-3&partnerID=40&md5=bb420b1f6869ed0001d41594b7635862
746	Piperazine-linked 4-aminoquinoline-chalcone/ferrocenyl-chalcone conjugates: Synthesis and antiparasmodial evaluation	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Medicine, University of California, San Francisco, CA, United States	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018969573&doi=10.1111%2fcbdd.12982&partnerID=40&md5=95938d4d116253158a1e8028a4da47e7
747	Accurate determination of black-body radiation shift, magic and tune out wavelengths for the 6S1/2 → 5D3/2 clock transition in Yb+	CSIR-National Physical Laboratory, Dr. K. S. Krishnan Marg, New Delhi, 110012, India; Academy of Scientific and Innovative Research, CSIR-National Physical Laboratory Campus, New Delhi, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Atomic, Molecular and Optical Physics Division, Physical Research Laboratory, Navrangpura, Ahmedabad, 380009, India; State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Institute of Physics and Mathematics, Chinese Academy of Sciences, Wuhan, 430071, China	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030993352&doi=10.1088%2f1361-6455%2faa8bae&partnerID=40&md5=098622a4abd18108d6772c4d3d37ccb0
748	A game theoretic approach for an IoT-based automated employee performance evaluation	Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus, Gurdaspur, 143521, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030468473&doi=10.1109%2fJYST.2015.2469102&partnerID=40&md5=9b18dd4fef7c83f29609af74df9e128c
749	Sensitive and selective ethanol sensor based on Zn-doped SnO2 nanostructures	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019566825&doi=10.1007%2fs10854-017-7133-x&partnerID=40&md5=f6420cbe8f95040e0b7438423fa3aae9
750	Short-range structure and thermal properties of alumino-tellurite glasses	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry and Process & Recourse Engineering, University of Cantabria, Spain; Chemistry & Biochemistry Department, Florida State University, Tallahassee, FL 32306, United States	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018391400&doi=10.1016%2fj.inocrvsol.2017.04.034&partnerID=40&md5=e3f8eb21f00b09b11ee98cedec2e5f2
751	Synthesis of Zinc Oxide Nanoparticles and Their Morphological, Optical, and Electrical Characterizations	Department of Physics and Electronics, University of Jammu, Jammu, 180006, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab 143521, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016125034&doi=10.1007%2fs11664-017-5469-x&partnerID=40&md5=c7efddb5a22d75ef723da64da51b26b1
752	Tailoring the interfacial and bulk behavior of ionic-liquids with non surface active drug diclofenac sodium	Department of Chemistry, UGC-centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017391629&doi=10.1016%2fj.colsurfa.2017.04.012&partnerID=40&md5=48e6fbee77c601ef44a40419abe324304
753	Assessment of carcinogenic and non-carcinogenic risk from exposure to uranium in groundwater from western Haryana, India	Department of Applied Sciences, Guru Kashi University, Talwandi Sabo, Punjab 151302, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85021742374&doi=10.1007%2fs12594-017-0675-y&partnerID=40&md5=bc5e51eaaa56ca4c55e7188afbc4a4ad

754	Performance of Indian IPOs: An Empirical Analysis	Department of Management, DAV University, Jalandhar, Punjab, India; Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020794961&doi=10.1177%2f0972150917692193&partnerID=40&md5=7c9ddb2b9c4d49af7361b35af5bff843
755	Head-on collision between two dust acoustic solitary waves and study of rogue waves in multicomponent dusty plasma	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020696518&doi=10.1063%2f1.4984996&partnerID=40&md5=812e2cbfb53e47461c547e7d14d08f80
756	Effect of earthworms on growth, photosynthetic efficiency and metal uptake in Brassica juncea L. plants grown in cadmium-polluted soils	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017163598&doi=10.1007%2fs11356-017-8947-z&partnerID=40&md5=d3f9b4722167f077a6d8e2acd8a4c805
757	Scaffolds of hydroxyl apatite nanoparticles disseminated in 1, 6-diisocyanatohexane-extended poly(1, 4-butylene succinate)/poly(methyl methacrylate) for bone tissue engineering	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India	8	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006010865&doi=10.1016%2fj.msec.2016.10.055&partnerID=40&md5=47c9a5cf6325e517a1ee25320077a849
758	Electromagnetic Characterization of Co-Ti-Doped Ba-M Ferrite-Based Frequency-Tunable Microwave Absorber in 12.4–40 GHz	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988329833&doi=10.1007%2fs10948-016-3789-3&partnerID=40&md5=97e6e67b7134b11ec8d722a8a7afd16a
759	Ameliorative potential of Alstonia scholaris (Linn.) R. Br. against chronic constriction injury-induced neuropathic pain in rats	Guru Nanak Dev University, Department of Pharmaceutical Sciences, Amritsar, 143005, India; Guru Nanak Dev University, Department of Botanical and Environmental Sciences, Amritsar, 143005, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85009921493&doi=10.1186%2fs12906-017-1577-7&partnerID=40&md5=bc0db712a6cddf8b0479d55dbaae21b
760	Enhancement of the solubility of poorly water soluble drugs through solid dispersion: A comprehensive review	Department of Pharmaceutical Sciences, IKG Punjab Technical University, Kapurthala, 144 603, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143 001, India; Department of Pharmaceutics, ISF College of Pharmacy, Moga, 142 001, India; India Department of Pharmaceutics, ASBASJSM College of Pharmacy, Bela, Ropar, 140 111, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85117955464&doi=10.4172%2fPHARMACEUTICAL-SCIENCES.1000279&partnerID=40&md5=d97df13c5f14517c56128709e524a6cc
761	Design, synthesis and preliminary antimicrobial evaluation of: N -alkyl chain-tethered C-5 functionalized bis-isatins	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Centre for Discovery and Innovation in Parasitic Diseases, Skaggs School of Pharmacy and Pharmaceutical Sciences, University of California San Diego, San Diego, CA 92093, United States; Department of Biological Sciences, University of the Pacific, Stockton, CA 95211, United States; Foodborne Toxin Detection and Prevention Research Unit, Agricultural Research Service, United States Department of Agriculture, Albany, CA 94710, United States	11	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031894468&doi=10.1039%2fc7md00434f&partnerID=40&md5=b8b4eeaa27c38032eaa077a62fb45a1c6
762	Dynamic fluorescence quenching by 2,4,6-trinitrophenol in the voids of an aggregation induced emission based fluorescent probe	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027961404&doi=10.1039%2fc7nj01277b&partnerID=40&md5=5fa403f71883960040cde779b22f47bb
763	Synthesis of 5-nitro-salicylaldehyde-N-substituted thiosemicarbazones of copper(II): Molecular structures, spectroscopy, ESI-mass studies and antimicrobial activity	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143 005, India; Departamento de Química Inorgánica, Facultad de Farmacia, Universidad de Santiago, Santiago, 15782, Spain; Department of Chemistry, Keene State College, Keene, NH 03435, United States	8	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014435249&doi=10.1016%2fj.ica.2017.02.032&partnerID=40&md5=e871349f7c0c125e10248d18324f100d
764	Stereoselective synthesis of novel C-3 functionalized 3-sulfonyl- β -lactams: Promising biologically active heterocyclic scaffolds	Department of Chemistry, Panjab University and Centre of Advanced Studies in Chemistry, Chandigarh, U.T. 160014, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	6	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85013194916&doi=10.1016%2fj.tetlet.2017.02.011&partnerID=40&md5=d09766222f9c2d9425424bfb92441091
765	Variable coordination and C-S bond cleavage activity of: N -substituted imidazolidine-2-thiones towards copper: Synthesis, spectroscopy, structures, ESI-mass and antimicrobial studies	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143 005, India; Departamento de Química Inorgánica, Facultad de Farmacia, Universidad de Santiago, Santiago, 15782, Chile; Department of Chemistry, Keene State CollegeNH 03435-2001, United States	9	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85010375403&doi=10.1039%2fc6dt04103e&partnerID=40&md5=1ac5328d5db39beb6296d5099c63a46c

766	Proliferating miller indices of C20 fullerene device under DFT-NEGF regime	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143001, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-8500963040&doi=10.1016%2fj.imgm.2016.10.017&partnerID=40&md5=55a4685123cdfc7ca5e30730da4633dc
767	Role of salicylic acid in heavy metal stress tolerance: Insight into underlying mechanism	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Botany, DAV University, Sarmastpur, Jalandhar, 144012, India; Biotechnology Department, DAV College, Amritsar, India	10	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042656823&doi=10.1007%2f978-981-10-6068-7_7&partnerID=40&md5=522242aaeeefe49c4e494a55956d940d
768	Immunopotentiating significance of conventionally used plant adaptogens as modulators in biochemical and molecular signalling pathways in cell mediated processes	Department of Botanical & Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Anatomy, Bingham University, Karu, Nasarawa State, Nigeria	6	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029814564&doi=10.1016%2fj.biopha.2017.09.081&partnerID=40&md5=0b9540218b8a0232703b626a37fba326
769	Structural, optical and electrical properties of crystalline V2O5 films deposited by thermal evaporation and effects of temperature on UV-vis and Raman spectra	Sensors and Glass Physics Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85021962558&doi=10.1016%2fj.jilleo.2017.06.104&partnerID=40&md5=2ef9f74f745e6d72acd48bd947a2c971
770	Managing the degree of exfoliation and number of graphene layers using probe sonication approach	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018452077&doi=10.1080%2f1536383X.2017.1292254&partnerID=40&md5=30acdbdc3bc7ac7ce19484d45334d509
771	Curcumin Dictates Divergent Fates for the Central Salt Bridges in Amyloid- β 40 and Amyloid- β 42	Department of Chemical Sciences, Tata Institute of Fundamental Research, Colaba, Mumbai, India, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, India, India; TIFR Centre for Interdisciplinary Sciences, Tata Institute of Fundamental Research, Narsinghi, Hyderabad, India, India	7	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018638873&doi=10.1016%2fj.bjpi.2017.02.043&partnerID=40&md5=c5550bd0f6c689b5ec53b1208d22e089
772	Scale Development and Validation for Measuring Online Engagement	Department of Commerce, Guru Nanak Dev University, Amritsar, PB, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019117279&doi=10.1080%2f15332861.2017.1299497&partnerID=40&md5=27a0af7d66c42a5742bfe90e77113e92
773	Imidazolium Based Probes for Recognition of Biologically and Medically Relevant Anions	Department of Chemistry, UGC Centre for advanced studies –II, Guru Nanak Dev University, Amritsar143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84992450894&doi=10.1002%2ftcr.201600108&partnerID=40&md5=e2081d9cc7757062c247fb72ab81a6ff
774	Addressing Challenges to Enhance the Bioactives of Withania somnifera through Organ, Tissue, and Cell Culture Based Approaches	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, 143 005, India; Drug Discovery and Assets Innovation Lab, DBT-AIST International Laboratory for Advanced Biomedicine (DAILAB), Biomedical Research Institute, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, 305 8565, Japan	8	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014205435&doi=10.1155%2f2017%2f3278494&partnerID=40&md5=3712b7bffc5cd4736b2853dc5155368e
775	In vitro antimicrobial potential of extracts and phytoconstituents from <i>Gymnema sylvestre</i> R.Br. leaves and their biosafety evaluation	Microbial Technology Laboratory, Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020484725&doi=10.1186%2fs13568-017-0416-z&partnerID=40&md5=54fb010e7c58fe1fbd3ad21d9612d04
776	Game theoretic decision making in IoT-assisted activity monitoring of defence personnel	Guru Nanak Dev University, Regional Campus, Gurdaspur, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016473616&doi=10.1007%2fs11042-017-4611-3&partnerID=40&md5=380b99ac7246297d4e0587e9c9e417ab
777	Low-frequency shock waves in a magnetized superthermal dusty plasma	Department of Physics, Guru Nanak Dev University, Amritsar, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029494497&doi=10.1007%2fs40094-017-0260-1&partnerID=40&md5=d452f8c3aee12a51e5b102efde685d80
778	Amplitude modulation of three-dimensional low-frequency solitary waves in a magnetized dusty superthermal plasma	Department of Physics, Guru Nanak Dev University, Amritsar, India; Department of Mathematics, Siksha Bhavana, Visva-Bharati University, Santiniketan, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029472826&doi=10.1007%2fs40094-017-0255-y&partnerID=40&md5=31a39ab0d9e08673f0692f2497144ff5
779	Radiation dose-dependent risk on individuals due to ingestion of uranium and radon concentration in drinking water samples of four districts of Haryana, India	Department of Applied Sciences (Physics Group), Chandigarh University, Mohali, India; Post Graduate Department of Physics, DAV College Amritsar, Amritsar, India; Department of Physics, Khalsa College Amritsar, Amritsar, India; Department of Physics, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, India; Department of Physics, Guru Nanak Dev University, Amritsar, India	8	2017	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020735781&doi=10.1080%2f10420150.2017.1336762&partnerID=40&md5=45b7088a4927d8175af581cfd8def056
780	Mineral and amino acid contents of different flaxseed cultivars in relation to its selected functional properties	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991660428&doi=10.1007%2fs11694-016-9417-x&partnerID=40&md5=e56c8a0b4f5a7818b6e75e0592f0f35a

781	Hepatoprotective activity of Butea monosperma bark against thioacetamide-induced liver injury in rats	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Akal College of Basic Sciences (Botany), Eternal University, Baru Sahib, Sirmour, Himachal Pradesh 173101, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	6	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85013663839&doi=10.1016%2fj.biopha.2017.01.165&partnerID=40&md5=1f188a0527c9563a505fc64b903d38b6
782	Effect of Cu-Co-Zr Doping on the Properties of Strontium Hexaferrites Synthesized by Sol-Gel Auto-combustion Method	Department of Chemistry, Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143 005, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991781039&doi=10.1007%2fs10948-016-3835-1&partnerID=40&md5=2c2693d979beda6b89f86e60da7c31a5
783	Synthesis, X-ray structures and anticancer activity of gold(II)-carbene complexes with selenones as co-ligands and their molecular docking studies with thioredoxin reductase	Department of Chemistry, King Fahd University of Petroleum and Minerals, Dhahran, 31261, Saudi Arabia; Department of Chemistry, Al-Neelain University, Khartoum, 11121, Sudan; Center of Research Excellence in Nanotechnology, King Fahd University of Petroleum & Minerals, Dhahran, 31261, Saudi Arabia; Department of Chemistry, College of Sciences and Humanities, Prince Sattam Bin Abdulaziz University, Al-Kharj, 11942, Saudi Arabia; Clinical Research Laboratory, SAAD Research and Development Center, SAAD Specialist Hospital, Al-Khobar31952, Saudi Arabia; Department of Molecular, Biology & Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India	10	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026798155&doi=10.1016%2fi.iorganchem.2017.07.034&partnerID=40&md5=478f53cf68bdc8cfd2542590314ca69e
784	A DFT-assisted mechanism for evolution of the ammoxidation of 2-chlorotoluene (2-CLT) to 2-chlorobenzonitrile (2-CLBN) over alumina-supported V2O5 catalyst prepared by a solution combustion method	Molecular and Heterogeneous Catalysis Lab, School of Chemical Sciences, Devi Ahilya University, Indore, 452001, India; Post-Graduate Department of Chemistry, Khalsa College, Amritsar, Punjab, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006251390&doi=10.1016%2fj.icat.2016.10.033&partnerID=40&md5=91f334aee4206df6f54c0b71fc6ac324
785	Smart computing based student performance evaluation framework for engineering education	Department of Computer Science and Engineering, Guru Nanak Dev University, Gurdaspur, Punjab, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85021369687&doi=10.1002%2fca.21849&partnerID=40&md5=5a1fbadf446babe85b0e1cdc228fa88
786	Influence of CTAB assisted capping on the structural and optical properties of ZnO nanoparticles	Department of Electronics Technology, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab 143521, India	1	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020274039&doi=10.1007%2fs10854-017-7224-8&partnerID=40&md5=91eb90bde833dbce16d7eae2b91fc6c
787	Alternative treatment strategies for neuropathic pain: Role of Indian medicinal plants and compounds of plant origin-A review	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Pathology and Laboratory Medicine, Faculty of Medicine, Reproduction and Urology division, Therapeutic products Directorate, Health, Canada	6	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019980229&doi=10.1016%2fj.biopha.2017.05.079&partnerID=40&md5=18ca5886adfd748b50fac539259c812
788	Performance analysis of coherent optical communication system for higher order dual polarization modulation formats	I. K. Gujral Punjab Technical University, Jalandhar, Punjab, India; RIMT Group of Institutes, Mandi Gobindgarh, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85011635995&doi=10.1016%2fj.jileo.2017.01.034&partnerID=40&md5=0aec0bb7ab6fac50ba330e4668034f1f
789	Studies on the binding ability of diclofenac sodium to cationic surfactants micelles in aqueous ethanol solutions: Calorimetric, spectroscopic, and light scattering approach	Department of Chemistry, UGC- Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991615363&doi=10.1007%2fs10973-016-5889-5&partnerID=40&md5=2b1688e882c63d16e03165b8bea683e1
790	Magnetic and dielectric properties of Ce-Co substituted BiFeO3 multiferroics	Department of Physics, Lovely Professional University, Phagwara, Punjab 144411, India; Solid State Research Lab, Department of Physics, University of Kashmir, Srinagar, 190006, India; Department of Physics, Himachal Pradesh University, Shimla, 171005, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	7	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016828098&doi=10.1088%2f2053-1591%2faa6433&partnerID=40&md5=82124cd6d2823440d91035104507729
791	Effect of oxygen ion irradiation on dielectric, structural, chemical and thermoluminescence properties of natural muscovite mica	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85007433807&doi=10.1016%2fi.apradiso.2016.12.053&partnerID=40&md5=696ea639598fee86595beac5af08e689
792	Thiazolidinone constraint combretastatin analogs as novel antitubulin agents: Design, synthesis, biological evaluation and docking studies	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Lloyd Institute of Management and Technology, Greater Noida, UP, India; Indian Institute of Integrative Medicine, Jammu, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85011103308&doi=10.2174%2f1871520615666160504093904&partnerID=40&md5=5cd0bad05dce10c4ccddaa85fc768d63

793	Role of Se(VI) in counteracting oxidative damage in Brassica juncea L. under Cr(VI) stress	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85009485597&doi=10.1007%2fs11738-017-2352-6&partnerID=40&md5=791474d1f234bbaf6d98fb5cfa34a8ca
794	Genetic and phenotypic screening of mannose-binding lectin in relation to risk of recurrent Vulvovaginal Infections in women of North India: A prospective cohort study	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, India; Department of Gynaecology and Obstetrics, Bebe Nanki Mother and Child Care Centre, Government Medical College, Amritsar, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85011982128&doi=10.3389%2ffmicb.2017.00075&partnerID=40&md5=e2500e1197d1f318cc35dd9a3f673e3f
795	Antioxidant and hepatoprotective potential of Lawsonia inermis L. leaves against 2-acetylaminofluorene induced hepatic damage in male Wistar rats	Guru Nanak Dev University, Department of Botanical and Environmental Sciences, Amritsar, Punjab, 143005, India; Guru Nanak Dev University, Department of Pharmaceutical Sciences, Amritsar, Punjab, 143005, India; Om Diagnostics, Amritsar, Punjab, India	6	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85009858763&doi=10.1186%2fs12906-017-1567-9&partnerID=40&md5=767499dbc8435c7974825c23d92c0680
796	Flavonoid-surfactant interactions: A detailed physicochemical study	Department of Chemistry, UGC-centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978173676&doi=10.1016%2ffi.saa.2016.07.007&partnerID=40&md5=7812902de352a4a50b0795c3b7a6e2f1
797	Zwitterionic liquid (ZIL) coated CuO as an efficient catalyst for the green synthesis of bis-coumarin derivatives: via one-pot multi-component reactions using mechanochemistry	Department of Chemistry, Indian Institute of Technology Ropar Punjab 140001, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143001, India; Department of Applied Sciences and Humanities, Jawaharlal Nehru Government Engineering College, Sundernagar Mandi (HP), 175018, India; Department of Chemistry, Punjab University, Chandigarh, 160014, India	7	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85021966409&doi=10.1039%2fc6nj03763a&partnerID=40&md5=94eff78f8b075bb08bb356493382291d
798	A cyanostilbene-boronate based AIEE probe for hydrogen peroxide—Application in chemical processing	Department of Chemistry, UGC-Centre for Advance Studies-II, Guru Nanak Dev University, Amritsar, 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85011344712&doi=10.1016%2fsi.snb.2017.01.143&partnerID=40&md5=8b774bf486dab77e579b71c52d9fa95b
799	An isocyanide based multi-component reaction under catalyst- and solvent-free conditions for the synthesis of unsymmetrical thioureas	Department of Chemistry, Mohanlal Sukhadia University, Udaipur, 313001, India; Department of Chemistry, U.G.C. Centre of Advance Studies in Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006979863&doi=10.1016%2fti.tetlet.2016.11.082&partnerID=40&md5=c8390e35b45272ad9e2e8c19a6db3978
800	28-Homobrassinolide potential for oxidative interface in Brassica juncea under temperature stress	Department of Botany, Punjabi University, Patiala, Punjab 147002, India; Department of Botanical and Environmental Sciences, GNDU, Amritsar, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029521575&doi=10.1007%2fs11738-017-2524-4&partnerID=40&md5=7e65da74032456d8e8d2a00a10a0adb4
801	ROS compartmentalization in plant cells under abiotic stress condition	Department of Botanical and Environment Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Dokuchaev Kharkiv National Agrarian University, Kharkiv, 62483, Ukraine	12	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85038231292&doi=10.1007%2f978-981-10-5254-5_4&partnerID=40&md5=b7adce9a080886cedd0fa8b31bd0b72e
802	Security in IoT network based on stochastic game net model	Guru Nanak Dev University Regional Campus Gurdaspur, Gurdaspur, Punjab, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018375717&doi=10.1002%2fnem.1975&partnerID=40&md5=c74e87541fe5794b51dea6b37dcba35c
803	Investigation of antimagnetic rotation in 101Pd	Department of Physics, Panjab University, Chandigarh, 160014, India; Department of Nuclear and Atomic Physics, Tata Institute of Fundamental Research, Mumbai, 400005, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	11	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020811262&doi=10.1088%2f1361-6471%2faa718a&partnerID=40&md5=d3e6a31aec34cbfad93993884d01b388
804	Interactions of diazepam with sodium dodecylsulfate and hexadecyl trimethyl ammonium bromide: Conductometric, UV-visible spectroscopy, fluorescence and NMR studies	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2017	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018497999&doi=10.1016%2fji.molliq.2017.04.043&partnerID=40&md5=a6a6815f88ec8496732b0900759d5722
805	Protein and microstructure evaluation of harder-to-cook and easy-to-cook grains from different kidney bean accessions	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85012306574&doi=10.1016%2fli.lwt.2017.01.027&partnerID=40&md5=e4b3285d622d7cf4243a5fd53c0a138e
806	Propagation characteristics of Hermite-cosh-Gaussian laser beam in a rippled density plasmas	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, D. A. V. College, Jalandhar, 144008, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85008422634&doi=10.1017%2fS026303461600080X&partnerID=40&md5=-9a632a3e90b91a8a25a1800e2a2f4692
807	Ag Doped ZnO Nanowires as Highly Sensitive Ethanol Gas Sensor	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, BBK DAV College for Women, Amritsar, 143005, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032013566&doi=10.1016%2fj.matpr.2017.06.207&partnerID=40&md5=edbcf81b2c0cabcf1fa99d4511048c0e

808	Phytochemical profiling of the leaves of Brassica juncea L. using GC-MS	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Environmental Science, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140407, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020521871&partnerID=40&md5=c861b062e4b17d5f991a504d9068e16d
809	Multifunctional geometrical isomers of ferrocene-benzo[1,2-b:4,5-b']difuran-2,6-(3H,7H)-dione adducts: second-order nonlinear optical behaviour and charge transport in thin film OFET devices	Department of Chemistry, UGC Centre of Advance Study-II, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemistry, University of Leuven, Celestijnenlaan 200D, Leuven, B-3001, Belgium; Chemistry and Physics of Materials Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, Karnataka 560064, India	8	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85009945386&doi=10.1039%2fc6tc03876j&partnerID=40&md5=94007ad1ff457e5f8a25e450d520a237
810	Amino acid functionalized zinc oxide nanostructures for cytotoxicity effect and hemolytic behavior: Theoretical and experimental studies	Department of Physics, Centre of Advanced Study in Physics, Panjab University, Chandigarh, 160014, India; Centre for Biosciences, Central University of Punjab, Bathinda, 151001, India; Department of Chemistry, Guru Nanak Dev University College, Chungh, Distt., Tarntaran, India; Department of UIET, Panjab University SSG Regional Centre Hoshiarpur, Panjab, 146001, India	9	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027579898&doi=10.1016%2fj.matdes.2017.08.020&partnerID=40&md5=3b8d45392b394d4e481f41974676922a
811	Human kidney and skeleton uranium burden, radiation dose and health risks from high uranium contents in drinking water of Bathinda district (Malwa Region) of Punjab State, India	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85034446533&doi=10.1093%2frpd%2fncx002&partnerID=40&md5=09d4ca3b7551ba97f23ddc5da450a3c0
812	Azide-alkyne cycloaddition en route to 4-aminoquinoline-ferrocenylchalcone conjugates: Synthesis and anti-TB evaluation	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Institut de Recherche en Infectiologie (IRIM), CNRS, UMR 9004, Université de Montpellier, France; INSERM, IRIM, Montpellier, 34293, France	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030479352&doi=10.4155%2ffmc-2017-0098&partnerID=40&md5=a01017b8ae900b59741f18741b06d865
813	TPGS stabilized sublingual films of frovatriptan for the management of menstrual migraine: Formulation, design and antioxidant activity	I.K.G Punjab Technical University, Kapurthala, Punjab, India; Department of Pharmaceutics, Lovely Institute of Technology (Pharmacy), Lovely Professional University, Phagwara, Punjab 144411, India; Department of Pharmaceutics, Khalsa College of Pharmacy, Amritsar, Punjab, India; Guru Jambheshwar University of Science & Technology, Hisar, Haryana, India; Department of Oral and Maxillofacial Pathology, Shri Guru Ram Das Institute of Dental Sciences and Research, Amritsar, Punjab, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85024389017&doi=10.1016%2fj.jddst.2017.07.008&partnerID=40&md5=7a91849f16a321825d4a63f4a93f1820
814	Enhanced dielectric permittivity and photoluminescence in Cr doped ZnS nanoparticles	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Indian Institutes of Science Education and Research, Pune, Dr. Homi Bhabha Road, Pashan, Pune, 411008, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018428919&doi=10.1016%2fj.apsusc.2017.04.180&partnerID=40&md5=997a5108a4b95f5a7f601f8903d4f487
815	ROS-induced transcription factors during oxidative stress in plants: A tabulated review	BBK DAV College for Women, Amritsar, Punjab, 143001, India; Department of Botanical and Environment Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85038232096&doi=10.1007%2f978-981-10-5254-5_6&partnerID=40&md5=e542a5a8356cf269f1eb328742949efa
816	The polysialic acid mimetics idarubicin and irinotecan stimulate neuronal survival and neurite outgrowth and signal via protein kinase C	Zentrum für Molekulare Neurobiologie Hamburg, Universitätsklinikum Hamburg-Eppendorf, Hamburg, Germany; Keck Center for Collaborative Neuroscience and Department of Cell Biology and Neuroscience, Rutgers University, Piscataway, NJ, United States; Department of Biotechnology, Guru Nanak Dev University, Amritsar, India; Fraunhofer Institute for Molecular Biology and Applied Ecology ScreeningPort (Fraunhofer-IME SP), Hamburg, Germany; Center for Neuroscience, Shantou University Medical College, Shantou, Guangdong, China; Wilmer Eye Institute, Johns Hopkins University School of Medicine, 400 North Broadway, Baltimore, MD 21287, United States	9	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85021240829&doi=10.1111%2fjnc.14076&partnerID=40&md5=8b0c8b5a6463daa6539648f0f13d62be
817	ESIPT-Induced Carbazole-Based AIEE Material for Nanomolar Detection of Cu ²⁺ and CN ⁻ Ions: A Molecular Keypad Security Device	Indian Institute of Technology (IIT), Mandi, Himachal Pradesh 175001, India; Department of Chemistry, Khalsa College (Affiliated to GNDU), Amritsar, Punjab 143002, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019268273&doi=10.1002%2feijc.201700091&partnerID=40&md5=7ff1d45b121e2e15cc36b19f68d81a78
818	An Edge detection technique with image segmentation using Ant Colony Optimization: A review	Department of C.S.E, GNDU, Amritsar, Punjab, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020191207&doi=10.1109%2fGET.2016.7916741&partnerID=40&md5=c0edf1141c328ac01fae2a642d42d2cf

819	Modulation of electromagnetic and absorption properties in 18–26.5 GHz frequency range of strontium hexaferrites with doping of cobalt–zirconium	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017171471&doi=10.1007%2fs00339-017-0942-1&partnerID=40&md5=18b8cb424b8ba71dba7a4b0f0913b805
820	Water quality of River Beas, India	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Botany, DAV University, Sarmastpur, Jalandhar, 144 012, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016261005&doi=10.18520%2fcs%2fv112%2fi06%2f1138-1157&partnerID=40&md5=707dbeb970e1a7f3782e250953360fcf
821	Assessment of age-dependent radiation dose and toxicity risk due to intake of uranium through the ingestion of groundwater from Northern Rajasthan, India	Department of Applied Sciences, Guru Kashi University, Talwandi Sabo, India; Department of Applied Sciences, FCET, Ferozshah, Ferozpur, India; Department of Physics, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, India; Department of Physics, Guru Nanak Dev University, Amritsar, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978999260&doi=10.1080%2f02772248.2016.1196210&partnerID=40&md5=439b3ba64fcf3bddff428e20747bd3e0
822	Waiting time of bulk arrival unreliable queue with balking and Bernoulli feedback using maximum entropy principle	Department of Mathematics, Guru Nanak Dev University, Amritsar, India; Department of Applied Sciences, Khalsa College of Engineering & Technology, Amritsar, India; Department of Mathematics, Indian Institute of Technology, Roorkee, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84999880301&doi=10.1080%2f15598608.2016.1251365&partnerID=40&md5=de20f5bf5678ca5fd5f97924896f0d4f
823	Modified fuzzy divergence measure and its applications to medical diagnosis and MCDM	Department of Mathematics, Guru Nanak Dev University, Amritsar, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028545396&doi=10.3233%2fRDA-170126&partnerID=40&md5=04d483a30983d4f70148aad12c491b5
824	Corporate attributes affecting sustainability reporting: an Indian perspective	Department of Commerce and Business Management, Guru Nanak Dev University, Amritsar, India; Department of Commerce, Guru Nanak Dev University, Amritsar, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020929624&doi=10.1108%2fIJLMA-11-2015-0057&partnerID=40&md5=3341b51861ec01f460135611ed128923
825	Identification and synthesis of novel inhibitors of mycobacterium ATP synthase	New Drug Discovery Research, Ranbaxy Research Laboratories (Now Sun Pharmaceutical Industries Ltd.), Plot-20, Sector-18, Udyog Vihar, Gurgaon, 122001, India; Daiichi Sankyo Life Science Research Centre in India, Daiichi Sankyo India Pharma Pvt. Ltd., Village Sarhaul, Sector-18, Udyog Vihar Industrial Area, Gurgaon, 122 015, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	10	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020102739&doi=10.1016%2fj.bmcl.2017.05.081&partnerID=40&md5=84dd4c2f63fe4d30b54a15948040e4ca
826	Analysis of organic acids of tricarboxylic acid cycle in plants using GC-MS, and system modeling	Department of Botany, DAV University, Sarmastpur, Jalandhar, Punjab 144012, India; Department of Botanical & Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067196028&doi=10.1186%2fs40543-017-0129-6&partnerID=40&md5=38582ca61b77d0c247db0134a8f2a16f
827	4-Substituted thieno[2,3-d]pyrimidines as potent antibacterial agents: Rational design, microwave-assisted synthesis, biological evaluation and molecular docking studies	Department of Pharmaceutical Chemistry, ISF College of Pharmacy, Moga, Punjab, India; I. K. Gujral Punjab Technical University, Kapurthala, Jalandhar, Punjab, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, India; Toxicology Division, Forensic Science Laboratory, Phase-IV, Mohali, Punjab, India; University Institute of Pharmaceutical Sciences, Panjab University, Chandigarh, India; Bioorganic and Photochemistry Laboratory, Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Shiva Institute of B. Pharmacy, Chandpur, Bilaspur, Himachal Pradesh, India	6	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85021287338&doi=10.1111%2fcbdd.13028&partnerID=40&md5=be7f72bc6d44351b65377485df7aafef
828	Microwave Absorption Properties of Cobalt-Zirconium Doped Strontium Hexaferrites in Ku-Frequency Band	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; Department of Chemistry, Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018789853&doi=10.1007%2fs10948-017-4141-2&partnerID=40&md5=0edc7882901176f92b1c4647def49210
829	Scrutiny of electron transport properties of adenine molecule under dissimilar miller orientations	Department of Electronics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028773983&doi=10.1166%2fjbn.2017.1462&partnerID=40&md5=42ae0830bd3a2c52b24cdc142ec2e9
830	Identification of malicious edge devices in fog computing environments	Department of Computer Science and Engineering, University Institute of Engineering and Technology, Chitkara University, Rajpura, Punjab, India; Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85024497418&doi=10.1080%2f19393555.2017.1334843&partnerID=40&md5=a2beafe743bf86139edf1e7956cca5a4
831	Effect of ion beam on the characteristics of ion acoustic Gardner solitons and double layers in a multicomponent superthermal plasma	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028619859&doi=10.1063%2f1.5000051&partnerID=40&md5=a29c2801201d502f56b0327462519f33

832	Understanding ion-ion and ion-solvent interactions in aqueous solutions of NMP based protic ionic liquids through partial molar properties and DFT calculations	Department of Chemistry, Indian Institute of Technology Madras, Chennai, 600036, India; Department of Chemical and Materials Engineering, National Central University, Jhongli, 320, Taiwan; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019126405&doi=10.1016%2fj.fluid.2017.05.005&partnerID=40&md5=fb56d34ccf322a3453a5ede0080236e
833	Aggregation and Morphological Aptitude of Drug-Based Ionic Liquids in Aqueous Solution	Department of Chemistry, UGC-Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India; Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028940108&doi=10.1021%2facso.7b00578&partnerID=40&md5=8d903b3484c146470951bd2d89977fc4
834	Dynamic resource allocation for big data streams based on data characteristics (5Vs)	Guru Nanak Dev University Regional Campus Gurdaspur, Gurdaspur, Punjab, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85024365393&doi=10.1002%2fnem.1978&partnerID=40&md5=209b0c0a1dcbcb21dfb87b282375893f
835	Fermentation of cereals: A tool to enhance bioactive compounds	Department of Food Science and Technology, Chaudhary Devi Lal University, Sirsa, Haryana, 125 055, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab, 143 001, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050036534&doi=10.1007%2f978-981-10-4732-9_8&partnerID=40&md5=89f12c1a59b53fa840cdecef3f34dc7b
836	Replication of newly identified type 2 diabetes susceptible loci in Northwest Indian population	Human Genetics Research Group, Department of Biotechnology, Shri Mata Vaishno Devi University, Katra, 182320, India; Department of Biotechnology, University of Jammu180006, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India	11	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014078060&doi=10.1016%2fj.diabres.2017.02.013&partnerID=40&md5=38aadcd15e9fd5230373fa74b0ad167f
837	Ethyl acetate fraction of Pteris vittata L. alleviates 2-acetylaminofluorene induced hepatic alterations in male Wistar rats	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Akal College of Basic Sciences (Botany), Eternal University, Baru Sahib, Sirmour, Himachal Pradesh 173101, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85011866743&doi=10.1016%2fj.biopha.2017.01.111&partnerID=40&md5=0faa63b7e53b3e08cce516cf9466c5ad
838	Radiation Losses in the Microwave X Band in Al-Cr Substituted Y-Type Hexaferrites	Research Scholar, Department of Physics, I. K. Gujral Punjab Technical University, Jalandhar, India; Department of Physics, Lovely Professional University, Phagwara, India; Satyam Institute of Engineering and Technology, Amritsar, India; Department of Electronic Technology, Guru Nanak Dev University, Amritsar, India	7	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016562062&doi=10.1088%2f0256-307X%2f34%2f4%2f044101&partnerID=40&md5=20e0ff049ee01bd2d75dc2a212eec72d
839	Sonochemical synthesis, characterization, antimicrobial activity and textile dyeing behavior of nano-sized cobalt(III) complexes	Department of Chemistry, UGC Centre for Advanced Studies-1, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry, Maharishi Markandeshwar University, Mullana, Ambala, Haryana 133207, India	7	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85000885425&doi=10.1016%2fj.ultsonch.2016.10.005&partnerID=40&md5=211ddb7f2232a5f37efadd405d7287a
840	Seasonal variability of equilibrium factor and unattached fractions of radon and thoron in different regions of Punjab, India	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Radiological Physics and Advisory Division, Bhabha Atomic Research Centre, Mumbai, 400085, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85007477159&doi=10.1016%2fj.ienvrad.2016.11.022&partnerID=40&md5=bdee497d7aec3c5684a834caccf516c4
841	Modulation instability and rogue wave structures of positron-acoustic waves in q-nonextensive plasmas	Department of Physics & Engineering Physics, University of SaskatchewanSK S7N5E2, Canada; Shandong Provincial Key Laboratory of Optical Astronomy & Solar-Terrestrial Environment, School of Space Science and Physics, Shandong University at Weihai, Weihai, 264209, China; Plasma Physics Group (PPG), Theoretical Physics Laboratory (TPL), Faculty of Physics, University of Bab-Ezzouar, USTHB, B.P. 32, El Alia, Algiers, 16111, Algeria; Algerian Academy of Sciences and Technologies, Algiers, Algeria; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988422435&doi=10.1016%2fj.physa.2016.09.003&partnerID=40&md5=837732999e89accee3b7381bb2a87f9c
842	Impact of advertising strategies on the cognitive and behavioral component of attitude of women consumers	University Business School, Guru Nanak Dev University, Amritsar, India; Guru Nanak Dev University, Amritsar, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85035753904&doi=10.1108%2fjABS-08-2015-0147&partnerID=40&md5=51486584e378af7f22156074350112f1

843	Predicting the outcome of spanish general elections 2016 using twitter as a tool	Department of Computer Science, Guru Nanak Dev University, Amritsar, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; Guru Nanak Dev University, Amritsar, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028336827&doi=10.1007%2f978-981-10-5780-9_7&partnerID=40&md5=8fc7bf4c7d886e437fc970d9ea5f4e39
844	An adaptive firefly algorithm for load balancing in cloud computing	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014308439&doi=10.1007%2f978-981-10-3322-3_7&partnerID=40&md5=0846dcc224d1ffdc17d4bcc85ec4d2a
845	Leaf spot disease adversely affects human health-promoting constituents and withanolide biosynthesis in Withania somnifera (L.) Dunal	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India; QC & QA, Indian Institute of Integrative Medicine, Jammu Tawi, Jammu and Kashmir, India; Department of Biotechnology, Chaudhary Devi Lal University, Sirsa, Haryana, India; Biotechnology Division, CSIR-Institute of Himalayan Bioresource Technology, Palampur, Himachal Pradesh, India; Department of Agriculture, DAV University, Jalandhar, Punjab 144012, India	8	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85002747899&doi=10.1111%2fjam.13314&partnerID=40&md5=3738cd8a98419f5df27ab9261cd15d32
846	Solvation behavior and sweetness response of carbohydrates, their derivatives and sugar alcohols in thiamine HCl (vitamin B1) and pyridoxine HCl (vitamin B6) at different temperatures	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019574628&doi=10.1016%2fj.foodchem.2017.05.078&partnerID=40&md5=e37e131db0ef6987762ab257d1ead69
847	Germination and early growth toxicity to barley seedlings (Hordeum vulgare L.) under di-n-butyl phthalate (DBP) stress	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85039704492&partnerID=40&md5=3eed1c0eccc45082f7d866fd869a90
848	Ion-acoustic dressed solitary structures in two component plasma with Tsallis-nonthermal velocity distribution of electrons	Department of Mathematics, Statistics and Physics, Punjab Agricultural University, Ludhiana, 141004, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics and Engineering Physics, University of Saskatchewan, Saskatoon, SK S7N 5E2, Canada; Department of Physics, Khalsa College, Amritsar, 143002, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85033692905&doi=10.1007%2fs12648-017-1056-5&partnerID=40&md5=184cc95a05c23a7f5f1c74e4312e7efe
849	Spatial and Temporal Heavy Metal Distribution and Surface Water Characterization of Kanjli Wetland (a Ramsar site), India Using Different Indices	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031923756&doi=10.1007%2fs00128-017-2194-3&partnerID=40&md5=8f09a3ff729849039b82a6dae9efc25f
850	Enhanced Performance Analysis of Inter-aircraft Optical Wireless Communication Link (laOWC) Using EDFA Pre-amplifier	Guru Nanak Dev University, Regional campus, Jalandhar, India	1	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026914208&doi=10.1007%2fs11277-017-4720-3&partnerID=40&md5=b8539231b8b67a4445875b3a5d46c018
851	Bacopa monnieri extracts prevent hydrogen peroxide-induced oxidative damage in a cellular model of neuroblastoma IMR32 cells	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Biotechnology, DAV College, Amritsar, Punjab 143006, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85043309570&doi=10.1016%2fs1875-5364%2818%2930017-7&partnerID=40&md5=974a6e703d8de1d5c2935f5e9f433a52
852	A stochastic game net-based model for effective decision-making in smart environments	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus Gurdaspur Punjab, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029695749&doi=10.1002%2fcpe.3843&partnerID=40&md5=703e2c4b45003610196969c8de6065c3
853	Probing molecular interactions of tetracaine with surface active ionic liquid and subsequent formation of vesicle in aqueous medium	Department of Chemistry, UGC-Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India; Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027871072&doi=10.1016%2fj.molliq.2017.08.062&partnerID=40&md5=b0026bed3bd82b6988076cbfc542e658
854	Effect of osmotic dehydration on physico-chemical properties and pigment content of carrot (Daucus carota L) during preserve manufacture	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006066492&doi=10.1111%2fjffp.13153&partnerID=40&md5=057d5ff27db9e5f35c0ded3cdaf810a8
855	Effect of H-bonding interactions of water molecules in the self assembly of supramolecular architecture-joint experimental and computational studies	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Chemistry, Hindu College, Amritsar, Punjab, India; Department of Nanotechnology, Sri Guru Granth Sahib World University Punjab, India; Department of Chemistry, BUC College, Batala, India; Department of Chemistry, Indian Institute of Technology Delhi, New Delhi, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017663927&doi=10.1016%2fj.molstruc.2017.04.039&partnerID=40&md5=a762db45775269d76ba6f2e8c3ff9585
856	The DFT-NEGF scrutiny of doped fullerene junctions	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143001, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85024126551&doi=10.1007%2fs00894-017-3405-x&partnerID=40&md5=bbe2063fb129fe7112b29844f8aee5ba

857	Student career path recommendation in engineering stream based on three-dimensional model	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus Gurdaspur, Punjab, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018747355&doi=10.1002%2fcae.21822&partnerID=40&md5=1d24cd149b982ee54b6dad07af0fa074
858	Head-on collision of dust acoustic shock waves in quantum plasma	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020053239&doi=10.1063%2f1.4984258&partnerID=40&md5=a1f3d14ca2036ba01865c2b43da60828
859	Association analysis of PPAR γ (p.Pro12Ala) polymorphism with type 2 diabetic retinopathy in patients from north India	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978710830&doi=10.1080%2f13816810.2016.1193879&partnerID=40&md5=5970b7cba127b6d17180a588b911eb5f
860	Supramolecular Ensemble of Tetraphenylcyclopentadienone Derivative and HgO nanoparticles: A One-Pot Approach for the Synthesis of Quinoline and Quinolone Derivatives	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041706990&doi=10.1002%2fslct.201602069&partnerID=40&md5=23f9a34422f3308ee1fd82a3434c3a84
861	Investigations on Antioxidant, Antiproliferative and COX-2 Inhibitory Potential of Alkaloids from <i>Anthocephalus cadamba</i> (Roxb.) Miq. Leaves	Post Graduate Department of Botany, Khalsa College Amritsar, Punjab, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Akal College of Basic Sciences (Botany), Eternal University, Baru Sahib, Sirmour, Himachal Pradesh 173101, India; Natural Product Chemistry and Process Development Division, CSIR-Institute of Himalayan Bioresource Technology, Palampur, Himachal Pradesh 176061, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017439348&doi=10.1002%2fcbdv.201600376&partnerID=40&md5=4f16df92c896b8feed6695bd44db6287
862	Reproductive biology of <i>Sorghum halepense</i> (L.) Pers. (Poaceae; Panicoideae; Andropogoneae) in relation to invasibility	Plant Systematics and Biodiversity Laboratory, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014430739&doi=10.1016%2ffi.flora.2017.02.009&partnerID=40&md5=8ee66b169b3135dc14c5834d475bc6d0
863	Study on the interactional behaviour of transition metal ions with myoglobin: A detailed calorimetric, spectroscopic and light scattering analysis	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85002251441&doi=10.1016%2ffi.saa.2016.11.041&partnerID=40&md5=12c90cbb958f471bbc32a7bfddea1ad6
864	Computational studies on optoelectronic and nonlinear properties of octaphyrin derivatives	Department of Chemistry, Guru Nanak Dev University, Amritsar, India; Department of Chemistry, Government Degree College, Kupwara, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017395814&doi=10.3389%2ffchem.2017.00011&partnerID=40&md5=882d49d0b426477cd5e94d8fc0e13ce9
865	Facile and green one pot synthesis of zinc sulphide quantum dots employing zinc-based ionic liquids and their photocatalytic activity	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026328120&doi=10.1039%2fc7nj01373f&partnerID=40&md5=1951edc5fdbbec6d6c88ee859d9c37e
866	Polysubstituted 2-aminoimidazoles as anti-biofilm and antiproliferative agents: Discovery of potent lead	Department of Pharmaceutical Chemistry, ISF College of Pharmacy, Moga, Punjab 142001, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143 005, India; Department of Pharmaceutical Sciences, University of Nebraska Medical Centre, Omaha, NE 68198, United States; Centre of Microbial and Plant Genetics, KU Leuven, Kasteelpark Arenberg 20, Leuven, 3001, Belgium; Laboratory for Organic and Microwave-Assisted Chemistry (LOMAC), University of Leuven (KU Leuven), Celestijnenlaan 200F, Leuven, 3001, Belgium; Peoples Friendship University of Russia (RUDN University), 6 Miklukho-Maklaya street, Moscow, 117198, Russian Federation; Shiva Institute of B. Pharmacy, Chandpur, Bilaspur, Himachal Pradesh 174004, India	6	2017	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85021281361&doi=10.1016%2ffeimech.2017.06.043&partnerID=40&md5=08e2425e31ed75684878076b92542297
867	Characteristics of starch separated from coarse and fine flour fractions obtained from hard, medium-hard, and soft Indian wheat cultivars	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85007574667&doi=10.1002%2fstar.201600012&partnerID=40&md5=46f6ba0585b0bc128a05dd274e86e8eb
868	Chlorpyrifos pollution: its effect on brain acetylcholinesterase activity in rat and treatment of polluted soil by indigenous <i>Pseudomonas</i> sp.	Department of Zoology, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143 005, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84990986130&doi=10.1007%2fs11356-016-7799-2&partnerID=40&md5=69a6d37436b7ae4519a868bf98817084
869	Microwave-Assisted Highly Efficient Route to 4-Aminoquinoline-Phthalimide Conjugates: Synthesis and Anti-Tubercular Evaluation	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Institut de Recherche en Infectiologie (IRIM), CNRS, UMR 9004, Université de Montpellier, France; INSERM, IRIM, Montpellier, 34293, France	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041702511&doi=10.1002%2fslct.201702220&partnerID=40&md5=5a2ec7c40c87826dcd1a23ee0c2608f1

870	Comparative assessment of phytotoxic responses induced by the exposure of benzyl butyl phthalate and di-n-butyl phthalate to giant duckweed (<i>Spirodela polyrhiza</i> L. schleiden)	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85036589222&partnerID=40&md5=4b3c1d45d5ad14dd0b2494e11fddb646
871	Fluoride mediated biochemical responses and removal potential in hydroponically grown duckweed (<i>Spirodela polyrhiza</i> L. scheldien)	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85036546184&partnerID=40&md5=200f27d7b573d97dbd80af8142830408
872	Influence of barley non-starchy polysaccharides on selected quality attributes of sponge cakes	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026211479&doi=10.1016%2fj.lwt.2017.07.024&partnerID=40&md5=e564b8b5e6aa4bbc3933fe7ee473c1cc
873	Comparative evaluation of performance of cold sprayed and bare N06601 superalloy in medical waste incinerator at 900 °C	Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab 144007, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028412929&doi=10.1016%2fi.matchemphys.2017.07.060&partnerID=40&md5=26ac8528f75ae2fbd9da5186f62de947
874	Sensitivity and specificity prediction of the buccal micronucleus cytome assay in end-stage renal disease patients on dialysis: A case-control study	Department of Human Genetics, Guru Nanak Dev University, Amritsar, 143 005, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85025685521&doi=10.1016%2fj.mrgentox.2017.07.001&partnerID=40&md5=70f1e60c2a23d127252ad135ee7c193b
875	Estradiol mitigates ischemia reperfusion-induced acute renal failure through NMDA receptor antagonism in rats	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018815158&doi=10.1007%2fs11010-017-3034-9&partnerID=40&md5=0168b60508aa5ff43091582142d6ebc6
876	Biotechnological approaches in propagation and improvement of withania somnifera (L.) dunal	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, 143 005, India	7	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053089779&doi=10.1007%2f978-3-319-59192-6_22&partnerID=40&md5=dae0e32e8a2d2d6daa683c92cd063fd
877	Mapping natural radioactivity of soil samples in different regions of Punjab, India	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019444881&doi=10.1016%2fi.apradiso.2017.05.013&partnerID=40&md5=4f8e99a1cb43ea77a248f34e030ca088
878	3,4–Dimethyl diphenyldithiophosphate of mononuclear cobalt(II) with N-donor ligands: Synthesis, structural characterization, DFT and antibacterial studies	Department of Chemistry, University of Jammu, Jammu, 180 006, India; Department of Chemistry, University of Manitoba, Winnipeg, MB R3T 2N2, Canada; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Quality Control and Quality Assurance Division, CSIR-Indian Institute of Integrative Medicine, Canal Road, Jammu, 180001, India; Academy of Scientific & Innovative Research (AcSIR), CSIR-Indian Institute of Integrative Medicine, Canal Road, Jammu, 180001, India	8	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016056554&doi=10.1016%2fj.molstruc.2017.03.085&partnerID=40&md5=60a40e969b767c5e3177b2e2852d878a
879	Impact of different metallic electrodes on quantum transport through deoxyribonucleic acid	Department of Electronics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028063189&doi=10.1166%2fjictn.2017.6798&partnerID=40&md5=637989aaebd591fc8a490df4a3f4ca89
880	Tuning of microwave absorptive behavior of double substituted barium hexaferrites with change in thickness in 26.5–40.0 GHz band	DAV Institute of Engineering and Technology, Jalandhar, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85024374189&doi=10.1007%2fs00339-017-1138-4&partnerID=40&md5=d04d00c8927f2ef26ad102dd04063cdb
881	First principle electron transport modeling of Be-doped organic molecular junctions	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019971096&doi=10.1016%2fj.jimgm.2017.05.020&partnerID=40&md5=eb09931ae218c43742c216d34795959b
882	Therapeutic potential of epigallocatechin gallate	Department of Pharmacology, School of Pharmaceutical Sciences, Lovely Professional University, Punjab, India; Department of Pharmacology, Dayanand Medical College, Punjab, India; Department of Pharmaceutical Sciences, Khalsa College of Pharmacy, Amritsar, Punjab, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85035007620&partnerID=40&md5=1d31f7629de92fb02edfb1f85ffac2be
883	Mobility modulation in low carrier concentration organic semiconducting thin films by varying disorder parameters	Department of Physics, DAV College, Amritsar, 143001, India; Material Science Research Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Micro Electronics Department, Central Scientific Instruments Organization, Chandigarh, 160030, India; S.I.E.T, Ramtirath Road, Amritsar, 143107, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020735383&doi=10.1063%2f1.4985181&partnerID=40&md5=e64709ef6ecdcb1ee2f0ecf8d2dac55

884	Mixer design optimization with fractured surface topography of mechanical properties of polymer biocomposites	Department of Mechanical Engineering, Punjabi University, Patiala, Punjab, India; Department of Chemical Engineering, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85013471876&doi=10.1016%2fj.itice.2017.02.007&partnerID=40&md5=68b0501079006f828f8fbad50b5a44c0
885	Dielectric and optical study of the M-phase LNT (Li-Nb-Ti-O) solid solutions	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85008674717&doi=10.1016%2fj.materresbull.2016.12.027&partnerID=40&md5=4b0b3dd922363586b7e891f7e0b51f48
886	Influence of the pore shape and dimension on the enhancement of thermoelectric performance of graphene nanoribbons	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University, RC Jalandhar, Ladheewali, Punjab, 144007, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85011706695&doi=10.1557%2fjmr.2017.3&partnerID=40&md5=bcddeaefb28251e8b23cf0c43d7be3a6
887	Performance analysis of an all-optical half-subtractor based on XGM in SOA at 20 Gbps	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Electronics & Communication Engineering, Punjabi University, Patiala, Punjab 147002, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019978540&partnerID=40&md5=9f79dfcb73b27f147b06e0b28699c7b4
888	Dependence of ambient refractive index sensitivity with grating period of LPFG	Department of Electronics Technology, Guru Nanak Dev University AmritsarPunjab, India; Department of Physics, Guru Nanak Dev University AmritsarPunjab, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85010297173&doi=10.1002%2fmop.30366&partnerID=40&md5=588e7758a72bf8515443517c394e44b9
889	Design anlysis of an E-shaped slit loaded MPA and parameters estimation using ANN	Department of Electronics and Communication Engineering, GNDU Regional Campus, Sathiala, Amritsar, India; Department of Computer Science and Engineering, GNDU Regional Campus, Sathiala, Amritsar, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85011088568&doi=10.1109%2fCCAA.2016.7813938&partnerID=40&md5=ae535504342303836dab26b3b73edfce
890	Volumetric, viscometric and spectroscopic approach to study the solvation behavior of xanthine drugs in aqueous solutions of NaCl at T = 288.15-318.15 K and at p = 101.325 kPa	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032794197&doi=10.1021%2facs.iced.6b00273&partnerID=40&md5=cb7b712d84cd7f224eaf0efe7984b448
891	Cost, revenue and profit efficiency analysis of Indian scheduled commercial banks: Empirical evidence across ownership	Department of Commerce, Guru Nanak Dev University, Amritsar, India; Department of Commerce and Business Management, Guru Nanak Dev University, Amritsar, India	2	2017	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020905492&doi=10.1108%2fJILMA-01-2016-0008&partnerID=40&md5=97c38cdd345e2b63f89c5d3131e34148
892	Ratiometric fluorescence “Turn On” probe for fast and selective detection of TNT in solution, solid and vapour	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014540822&doi=10.1016%2fj.snb.2017.02.174&partnerID=40&md5=361a5961a4089e36068c2df031640e4f
893	Second-order nonlinear polarizability of ferrocene-BODIPY donor-acceptor adducts. Quantifying charge redistribution in the excited state	Department of Chemistry, UGC Centre of Advanced Study-II, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, University of Leuven, Celestijnenlaan 200D, Leuven, B-3001, Belgium	6	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85010280701&doi=10.1039%2fc6dt04455g&partnerID=40&md5=dbb04905d696333486b5bef1c2da4094
894	Benzoflavones as cholesterol esterase inhibitors: Synthesis, biological evaluation and docking studies	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Lloyd Institute of Management and Technology, Greater Noida, UP, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	7	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85009729391&doi=10.1016%2fj.bmcl.2017.01.020&partnerID=40&md5=1f13f88ba706ce2a9d2e9b99d765ecde
895	Rationally designed benzopyran fused isoxazolidines and derived β 2,3,3-amino alcohols as potent analgesics: Synthesis, biological evaluation and molecular docking analysis	Bio-Organic and Photochemistry Laboratory, Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143 005, India; Post-Graduate Department of Physics & Electronics, University of Jammu, Jammu Tawi180 006, India; Cancer Pharmacology Division, Indian Institute of Integrative Medicine (CSIR), Jammu, 180001, India; Department of Chemistry, UGC Sponsored Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143 005, India	7	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85008388788&doi=10.1016%2fj.ejmech.2016.12.052&partnerID=40&md5=493a0df181896015ef3c41f138b820cf
896	Weakly relativistic self-focusing of Gaussian laser beam in magnetized cold quantum plasma	Department of Applied Science, Lyallpur Khalsa College of Engineering, Jalandhar, 144001, India; Research Scholar, I. K. Gujral Punjab Technical University, Kapurthala, 144603, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85039930798&doi=10.1017%2fSO263034617000726&partnerID=40&md5=b406abaa461a571bccdfc803d6f51d9a

897	Interaction of salicylic acid with plant hormones in plants under abiotic stress	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Biotechnology Department, DAV College, Amritsar, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India	9	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041429801&doi=10.1007%2f978-981-10-6068-7_10&partnerID=40&md5=4b33f83806b70eafdf537c19f0113ace
898	Impact of optical modulation formats on 10 G/2.5 G asymmetric XG-PON system	School of Electronics and Communication Engineering, Lovely Professional University, Phagwara, 144411, India; Department of Electronics and Communication, Guru Nanak Dev University, Regional Campus, Gurdaspur, 143521, India; Department of Electronics and Communication Engineering, National Institute of Technology, Hamirpur, 177005, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029789501&doi=10.1016%2fj.jileo.2017.09.063&partnerID=40&md5=84059333af1929d440de99718b70990d
899	Sauromatum guttatum lectin: Spectral studies, lectin-carbohydrate interaction, molecular cloning and in silico analysis	Department of Molecular Biology & Biochemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Interdisciplinary Biotechnology Unit, Aligarh Muslim University, Aligarh, 202002, India; Department of Biochemistry, Dr. Y.S.P. Govt. Medical College & Hospital, Distt. Sirmaur (H.P.), Nahan, 173001, India	7	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85023619656&doi=10.1016%2fj.jbiomac.2017.06.123&partnerID=40&md5=9995cf0d4a21fa25db06fb64fd8cac0a
900	Synergistic antimutagenic effect of isothiocyanates against varied mutagens	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019357296&doi=10.1016%2fj.fct.2017.05.017&partnerID=40&md5=3a9face38ab2f24aca145342d115c84d
901	Local anesthetic-bovine serum albumin interactional behaviour: Characterization by volumetric, calorimetric, and spectroscopic methods	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027990501&doi=10.1016%2fj.molliq.2017.08.011&partnerID=40&md5=2e88f8e733418e17b09252e282225ba1
902	Identification of functional SNPs in human LGALS3 gene by in silico analyses	Department of Human Genetics, Guru Nanak Dev University, Amritsar, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85013774828&doi=10.1016%2fj.ejmhg.2017.02.001&partnerID=40&md5=366dfbf8983b9c69462d08d9ca0f4302
903	Characteristics of normal and waxy corn: physicochemical, protein secondary structure, dough rheology and chapatti making properties	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028575398&doi=10.1007%2fs13197-017-2775-5&partnerID=40&md5=b3c932ac0c0acbc9dc9c43f504b0dbaf
904	Propargylated cyanostilbene based chemodosimeter for Pd ²⁺ with application in biological fluids	Department of Chemistry, UGC-Centre of Advanced Study-II, Guru Nanak Dev University, Amritsar, 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018950602&doi=10.1016%2fj.dyepig.2017.04.054&partnerID=40&md5=79a5d1fcc4281b69a656a42ce2d9fcfbf
905	Enhanced performance of all-optical half-subtractor based on cross-gain modulation (XGM) in semiconductor optical amplifier (SOA) by accelerating its gain recovery dynamics	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; Department of Electronics and Communication Engineering, Punjabi University, Patiala, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84996560233&doi=10.1007%2fs11107-016-0677-5&partnerID=40&md5=265cec20ca0f9c5218243e96f200c32a
906	Elliptic curve cryptography for real time embedded systems in IoT networks	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028570742&doi=10.1109%2fWECON.2016.7993462&partnerID=40&md5=8c841021b5ad5b77d5d8cb450bb1cca2
907	Disease prediction using hybrid K-means and support vector machine	Department of Computer Science, Guru Nanak Dev University, RC, Jalandhar, Punjab, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027458453&doi=10.1109%2fIICTP.2016.7975367&partnerID=40&md5=1a826c28418093769c14e4c160cb037a
908	Integrating classical with emerging concepts for better understanding of salinity stress tolerance mechanisms in rice	Department of Biotechnology, Guru Nanak Dev University, Amritsar, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026810226&doi=10.3389%2ffenvs.2017.00042&partnerID=40&md5=ab530b93ccb8b5d618d75735cdc61d30
909	Potential of saccharomyces cerevisiae flocculent strain to biosorb copper and cadmium ions from aqueous solution	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031298672&doi=10.5004%2fdwt.2017.21025&partnerID=40&md5=8c3152be709f45354edf4afa96fa5320
910	Dust kinetic Alfvén solitary and rogue waves in a dusty plasma with two temperature nonextensive ions	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics and Engineering Physics, University of Saskatchewan, Saskatoon, Saskatchewan, S7N 5E2, Canada; Shandong Provincial Key Laboratory of Optical Astronomy and Solar-Terrestrial Environment, School of Space Science and Physics, Shandong University at Weihai, Weihai, 264209, China	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85021645593&doi=10.1063%2f1.4989712&partnerID=40&md5=9d07288f19fb0d0da5c3c1853607872a

911	Mango Processing and Processed Products	Department of Food Science and Human Nutrition, Michigan State University, East Lansing, MI, United States; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Food Technology and oNutrition, Maha Sarakham University, Maha Sarakham, Thailand	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052528638&doi=10.1002%2f9781119014362.ch10&partnerID=40&md5=ff66ac55dbd7eb2f9e24ed8edb04b1d7
912	Morphology pursuance in c20 fullerene molecular junction: Ab initio implementation	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, 143001, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078991394&doi=10.1142%2fS2424913017500072&partnerID=40&md5=3ee0d6e2e1599d74c1346757819713ae
913	Inhibitory Activities of Butanol Fraction from Butea monosperma (Lam.) Taub. Bark Against Free Radicals, Genotoxins and Cancer Cells	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Akal College of Basic Sciences (Botany), Eternal University, Baru Sahib, Sirmour, Himachal Pradesh 173101, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019355354&doi=10.1002%2fcbdv.201600484&partnerID=40&md5=cc01aa1c298e95c55128de58592d912d
914	Annexing magic and tune-out wavelengths to the clock transitions of the alkaline-earth-metal ions	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Atomic, Molecular, and Optical Physics Division, Physical Research Laboratory, Navrangpura, Ahmedabad, 380009, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017153792&doi=10.1103%2fPhysRevA.95.042501&partnerID=40&md5=140f77a6aae9f7ae0102c89cd677a3ae
915	Geometrical structure and nonlinear response variations of metal (M = Ni2+, Pd2+, Pt2+) octaphyrin complex derivatives: A DFT study	Department of Chemistry, U.G.C. Centre of Advance Studies in Chemistry, Guru Nanak Dev University, Amritsar, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85013168275&doi=10.1080%2f00958972.2017.1290799&partnerID=40&md5=687e810f6144076b38c3efd44b5af5f2
916	Anisotropic charge transport properties in boron sub phthalocyanine chloride thin films	Department of Physics, DAV College, Amritsar, 143001, India; Material Research Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Micro Electronics Department, Central Scientific Instruments Organization, Chandigarh, 160030, India; Technical Physics and Prototype Engineering Division, Bhabha Atomic Research Centre, Mumbai, 400085, India	7	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014507175&doi=10.1063%2f1.4977695&partnerID=40&md5=520d8a7ed245ffe0b9c38a7a7bf8fdff
917	Molecular cloning, characterization, heterologous expression and in-silico analysis of disordered boiling soluble stress-responsive wBsSRP protein from drought tolerant wheat cv.PBW 175	PG Department of Biotechnology, Lyallpur Khalsa College, G.T. Road, Jalandhar, Punjab 144001, India; Biodiversity and Applied Botany Division, Indian Institute of Integrative Medicine (CSIR), Canal Road, Jammu, 180001, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, India	6	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85008599012&doi=10.1016%2fj.plaphy.2016.12.017&partnerID=40&md5=734114b26a3d6b34c1ffebe00618f947
918	Binding and selectivity of phenazino-18-crown-6-ether with alkali, alkaline earth and toxic metal species: A DFT study	Department of Chemistry, U.G.C. Centre of Advance Studies in Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85003000560&doi=10.1016%2fj.molstruc.2016.10.100&partnerID=40&md5=8828ca034409f58facb8338b42756cc8
919	Bulk queue with Bernoulli vacation and m-optional services under N-policy	Department of Mathematics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Mathematics, M.L.U. DAV College, Phagwara, 144402, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85033239081&doi=10.1504%2fIJOR.2017.087826&partnerID=40&md5=da dd36fb44d65046da4b6490893880a1
920	A review on pharmacognostic, phytochemical and pharmacological data of various species of Hippophae (Sea buckthorn)	Department of Pharmaceutics, School of Pharmaceutical Sciences, Shoolini University of Biotechnology and Management Sciences, Post Box No.9, Solan, Himachal Pradesh 173 212, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019984517&partnerID=40&md5=1859bef85c4d8cc29cc58e67528e48f2
921	Structural, dielectric and optical analysis of Li1.1–yNb0.9–3yTi0.1+4yO3 M-phase solid solutions	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018894991&doi=10.1016%2fj.ceramint.2017.05.048&partnerID=40&md5=649ed279d78a770b2e34e5d0e46aa0dd
922	Volumetric, viscometric and 1H NMR spectroscopic studies in (polyhydroxy solute + CTAB + H2O) ternary solutions	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017672786&doi=10.1016%2fj.ict.2017.04.001&partnerID=40&md5=402bf2e69c57d180921109f913381621
923	Assessment of dna damage in leukocytes of patients with coronary artery disease by comet assay	Department of Human Genetics, Guru Nanak Dev University, Amritsar, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017172484&doi=10.1536%2fijh.16-190&partnerID=40&md5=18a37ea8c7986a8c7105c151157bc135
924	Structural and functional impact of SNPs in P-selectin gene: A comprehensive in silico analysis	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016324464&doi=10.1515%2fbiol-2017-0003&partnerID=40&md5=46f92d4ed6934c5afb5fc6e745059f8d

925	Synthesis and characterization of a tin(IV) antimonophosphate nano-composite membrane incorporating 1-dodecyl-3-methylimidazolium bromide ionic liquid	Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Department of Chemistry, UGC-centre for Advance Studies-II, Guru Nanak Dev University, Amritsar, 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014220008&doi=10.1039%2fc6ra27318a&partnerID=40&md5=2c5f0e2a866ddb0cf6de98d47856aa8f
926	Mn doping induced physico-chemical changes in La[Sbnd]Ce ferrite nanofabricated by ionic liquid assisted hydrothermal route	Department of Chemistry, UGC-Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85010818904&doi=10.1016%2fj.jallcom.2017.01.138&partnerID=40&md5=7c0f69164782d7812a5a0054a22286d7
927	Emerging trends in physiological and biochemical responses of salicylic acid	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Botany, School of Life Sciences, Satellite Campus Kargil, University of Kashmir, India	10	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042643278&doi=10.1007%2f978-981-10-6068-7_4&partnerID=40&md5=8eec3d5dc5ef92b6a473341336a03e5d
928	Assessment of soybean inhibitor as a biopesticide against melon fruit fly, <i>Bactrocera cucurbitae</i> (Coquillett)	Insect Physiology Lab, Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India; Central University of Punjab, Bhatinda, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029812131&doi=10.1007%2fs41348-017-0108-6&partnerID=40&md5=7eba27ee9302fe3a2d6bc0cfd4413b3f
929	Effect of microwave steamable bag design on the preservation of ascorbic acid and antioxidant capacity and on the physical properties of cooked frozen vegetables: A case study on broccoli (<i>Brassica oleracea</i>)	School of Packaging, Michigan State University, East Lansing, MI, United States; Department of Food Science and Human Nutrition, Michigan State University, East Lansing, MI, United States; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Biosystems and Agricultural Engineering, Michigan State University, East Lansing, MI, United States	6	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019496301&doi=10.1016%2fj.lwt.2017.05.018&partnerID=40&md5=dd33e56c35dcce3d3235f70dd7d6b69
930	Chiro-optic and nonlinear optical studies of bridged triarylamine heterohelices; A DFT study	Department of Chemistry, U.G.C. Centre of Advance Studies in Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Kashmir University, Srinagar, 190006, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017531642&doi=10.1016%2fj.molstruc.2017.04.030&partnerID=40&md5=c99071ca5cac8769b1d43654ec1da76e
931	Prevalence of low bone health using quantitative ultrasound in Indian women aged 41–60 years: Its association with nutrition and other related risk factors	Faculty of Sports Medicine and Physiotherapy, Guru Nanak Dev University, Amritsar, Punjab, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85011601665&doi=10.1080%2f08952841.2016.1188620&partnerID=40&md5=a9f53203b482c85a375fb91ffe7adb92
932	Parametric comparison of EMDS algorithm with some symmetric cryptosystems	Khalsa College, Amritsar, Punjab, India; Guru Nanak Dev University, Amritsar, Punjab, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85007236690&doi=10.1016%2fj.eij.2016.11.004&partnerID=40&md5=aeba9794fd22505d1885e6d88743d5c4
933	Role of cysteine residues in regulation of peptidyl-prolyl cis-trans isomerase activity of wheat cyclophilin TaCYP-1	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Bioinformatics, Hans Raj Mahila Maha Vidyalaya, Jalandhar, Punjab 144008, India; Stress Physiology and Molecular Biology Laboratory, School of Life Sciences, Jawaharlal Nehru University, New Delhi, 110067, India	6	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028825937&doi=10.2174%2f0929866524666170417165823&partnerID=40&md5=1f2621c763d6d7c22a9f89990e14b29d
934	Molecular and functional characterization of myxobacteria isolated from soil in India	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department cum National Centre for Human Genome Studies and Research, Punjab University, Sector 14, Chandigarh, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020007919&doi=10.1007%2fs13205-017-0722-9&partnerID=40&md5=4ee0c5de735465411350f70f16f9fff2
935	Relativistic effects on evolution of a q-Gaussian laser beam in magnetoplasma: Application of higher order corrections	Department of Physics, D.A.V College, Jalandhar, 144001, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, Lyallpur Khalsa College, Jalandhar, 144001, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019631451&doi=10.1063%2f1.4983309&partnerID=40&md5=4c68e7e5c6fed94e2d043f67c8ff7ad5
936	Influence of acid hydrolysis on physico-chemical, structural, and pasting properties of moth bean (<i>Vigna aconitifolia</i>) starch	Department of Chemical Engineering, Motilal Nehru National Institute of Technology (MNNIT), Allahabad, Uttar Pradesh, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Bioinformatics, Sam Higgonbottom University of Agricultural Sciences and Technology (SHIATS), Allahabad, Uttar Pradesh, India; Department of Food Engineering, National Institute of Food Technology Entrepreneurship and Management (NIFTEM) Kundli, Sonapat, Haryana, India	6	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85002981852&doi=10.1002%2fstar.201600242&partnerID=40&md5=66d116e78a2fc24651dd0edf14e1b26e

937	Retinoic acid exacerbates chlorpyrifos action in ensuing adipogenic differentiation of C3H10T1/2 cells in a GSK3 β dependent pathway	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India; Centre for Stem Cell Tissue Engineering and Biomedical Excellence, Panjab University, Chandigarh, India; Biotechnology Branch, University Institute of Engineering and Technology, Panjab University, Chandigarh, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015346068&doi=10.1371%2fjournal.pone.0173031&partnerID=40&md5=6ee30745e9bd523e35f73630b2d2bce8
938	X-Band Microwave Reflection Properties of Samarium/Bismuth-Substituted Barium Lanthanum Titanate Ceramics	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85008197470&doi=10.1007%2fs11664-016-5226-6&partnerID=40&md5=b017be55d6667720480d452f293b2d2c
939	A computation offloading scheme for performance enhancement of smart mobile devices for mobile cloud computing	Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015818273&doi=10.1109%2fICNGIS.2016.7854047&partnerID=40&md5=321cab549905c3ea0c82c96bd8639c01
940	Ab-initio molecular characterization of nonclassical fullerenes cluster using two probe approach	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143001, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85008411886&doi=10.1557%2fjmr.2016.511&partnerID=40&md5=ddb682febe8486290a8d8f3e5568e034
941	Addressing the characteristics of mobility models in IoV for smart city	Department of Computer Science and Engineering, GNDU, RC, Ladhewali, Jalandhar, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85011082011&doi=10.1109%2fCCEAA.2016.7813919&partnerID=40&md5=9798c32aba60ca539121d98cb6761d85
942	Safe and effective delivery of amphotericin B: A survey of patents	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032860683&doi=10.2174%2f1872210511666170105130210&partnerID=40&md5=9b88606a3afb3e196d319ef8d25cc2d1
943	PHARMACOGNOSTIC STANDARDIZATION OF THE LEAF OF MELALEUCA ALTERNIFOLIA (MAIDEN & BETCHE) CHEEL	Department of Pharmaceutical Analysis, Khalsa College of Pharmacy, Amritsar, Punjab, India; Department of Pharmaceutical Analysis, Khalsa College of Pharmacy, Amritsar, Punjab, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027441889&doi=10.21010%2fajtcam.v14i3.1&partnerID=40&md5=95a0f67a8a5851404dd85b9f78664fcf
944	Choice of diversification strategies in an emerging market environment: An empirical evaluation	Department of Commerce, Guru Nanak Dev University, Amritsar, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85024912305&doi=10.1504%2fIJBG.2017.085108&partnerID=40&md5=478a0fca19f28fbc6f3fc4f9c4a69a54
945	Structure directing role of amines and water molecules in the self-assembly of polyoxomolybdates	Department of Chemistry, Centre of Advance Studies-II, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017286688&doi=10.1039%2fc6ce02640k&partnerID=40&md5=a13a5040d0d7a3f54383ee615d3eba19
946	Web page recommendation system based on partially ordered sequential rules	Department of Computer Science and Engineering, DAV University, Jalandhar, 144012, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016738055&doi=10.3233%2fJIFS-169244&partnerID=40&md5=370e437feb7a7020e3084de3d3aee0b9
947	Coordination chemistry of Cu(II), Co(II), Zn(II) and Ag(I) complexes of isomeric pyridine 2- and 4-carboxamides and their biological activity evaluation	Department of Chemistry, Centre for Advanced Studies in Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85013882474&doi=10.1016%2fpi.poly.2017.01.063&partnerID=40&md5=c03da9c9d224c196f9446e127d950c12
948	Role of glutathione S-transferase in coronary artery disease patients with and without type 2 diabetes mellitus	Department of Medical Laboratory Technology, Government Polytechnic College for Women, Amritsar, Punjab, India; Department of Biochemistry, Government Medical College, Amritsar, Punjab, India; Department of Biochemistry, Molecular Biology, Guru Nanak Dev University, Amritsar, Punjab, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85010737647&doi=10.7860%2fjCDR%2f2016%2f23846.9281&partnerID=40&md5=03d4ef7e53f3aca8107cae62179255cc
949	The electronic transport properties of B40 fullerenes with chalcogens as anchor atoms	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Indra Colony Phase 2, Street No. 2 Aslamabad, Hoshiarpur, Punjab 146001, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85035225364&doi=10.1007%2fs00894-017-3520-8&partnerID=40&md5=35b2b41f776f5532ca79a7ba2c91746c
950	Glutathione S-transferase P1 gene polymorphisms and susceptibility to coronary artery disease in a subgroup of north Indian population	Department of Human Genetics, Guru Nanak Dev University, Amritsar, 143005, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85035126403&doi=10.1007%2fs12041-017-0863-y&partnerID=40&md5=2b68317bc3f12115bd7e74960001d520
951	Volumetric, Viscometric, and ¹ H NMR Studies on Caffeine, Theophylline, and Theobromine in Aqueous Solutions of MgCl ₂ at Temperatures T = (288.15 to 318.15) K and at Pressure p = 101.3 kPa	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85033604211&doi=10.1021%2facs.jced.7b00520&partnerID=40&md5=a87575b47cca72f68d02f8a9b99ca594

952	Improved pharmacokinetic and pharmacodynamic attributes of artemether–lumefantrine-loaded solid SMEDDS for oral administration	Pharmaceutics Division, Department of Pharmaceutical Sciences & Drug Research, Punjabi University, Patiala, Punjab, India; Department of Pharmacology, SGRDIMS, Amritsar, Punjab, India; Department of Medical Parasitology, PGIMER, Chandigarh, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	8	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030649581&doi=10.1111%2fijphp.12795&partnerID=40&md5=f99c6f7c04e36c6f37364a255ff853d
953	Synthesis, spectroscopic characterization and in vitro anticancer activity of new platinum(II) complexes with some thione ligands in the presence of triethylphosphine	Department of Chemistry, King Fahd University of Petroleum and Minerals, Dhahran, 31261, Saudi Arabia; Center of Research Excellence in Nanotechnology, King Fahd University of Petroleum & Minerals, Dhahran, 31261, Saudi Arabia; Department of Chemistry, College of Sciences and Humanities, Prince Sattam bin Abdulaziz University, Al-Kharj, 11942, Saudi Arabia; Department of Molecular, Biology & Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India; Clinical Research Laboratory, SAAD Research Development Center, SAAD Specialist Hospital, Al-Khobar, 31952, Saudi Arabia	7	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030669692&doi=10.1007%2fs10534-017-0047-5&partnerID=40&md5=25b56dc6c893364ea8e6f98c767fceb1
954	Optical properties of an inhomogeneously broadened multilevel V-system in the weak and strong probe regimes	Department of Physics, Indian Institute of Technology, Roorkee, 247 667, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Physics, Indian Institute of Science, Bangalore, 560 012, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026788920&doi=10.1007%2fs12648-017-1014-2&partnerID=40&md5=0c7309f313b51a16e0794ad6543f9c5a
955	Spectral bandwidth-efficient four-wave mixing minimization scheme for C-band dense wavelength division multiplexed system	Guru Nanak Dev University, Department of Electronics Technology, Amritsar, Punjab, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027004078&doi=10.1117%2f1.OE.56.7.076115&partnerID=40&md5=87d4b25c34de06262aa9c7ecc8f3d671
956	Structural and dielectric properties of Li1 + x Ta1-x Tix O3 M-phase solid solutions	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015726683&doi=10.1007%2fs10854-017-6719-7&partnerID=40&md5=a37e2248922abde127a7535a9a83ad85
957	Evaluating the performance of density grid-based clustering using ABC technique for efficient routing in WSNs	Department of Computer Science and Engineering, Khalsa College of Engineering and Technology, Amritsar, Punjab, India; Havelock Infotech Solution, Amritsar, Punjab, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020225658&doi=10.1109%2fCISS.2017.7926099&partnerID=40&md5=b6d3fc9c5d7d56956405322bcfe626c
958	Radionuclide measurements along with exhalation study in subsoil of southeast Haryana, India	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018458542&doi=10.1007%2fs12665-017-6650-5&partnerID=40&md5=2853a91d6e16a849a7d6e79639326ef7
959	Family fabaceae: A boon for cancer therapy	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143001, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85034390314&doi=10.1007%2f978-3-319-53880-8_7&partnerID=40&md5=84ab10f223e6664af8d2c8b0d4b7a5c9
960	Effect of magnetic field on the optical properties of an inhomogeneously broadened multilevel Λ -system in Rb vapor	Department of Physics, Indian Institute of Technology, Roorkee, 247 667, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143 005, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016948269&doi=10.1140%2fepjd%2fe2017-70637-5&partnerID=40&md5=97e9ecda31487b6b0723f91a9a8d2319
961	Heat transfer in thermally modulated two-dimensional Rayleigh Bénard convection	Department of Mathematics, Guru Nanak Dev University, Amritsar, 143005, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006788930&doi=10.1016%2fj.jthermalsci.2016.12.012&partnerID=40&md5=6fb5f170c017ab2e779f1bc87704ba0d
962	HPLC and HPTLC methods for simultaneous estimation of quercetin and curcumin in polyherbal formulation	Department of Pharmaceutical Chemistry and Analysis, Khalsa College of Pharmacy, G. T. Road, Amritsar, 143 002, India; Department of Pharmaceutical Analysis, A. S. B. A. S. J. S. M. College of Pharmacy, Bela, Ropar, 140 111, India; Department of Pharmacy, Banasthali University, Tonk, 304 022, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029817576&doi=10.4172%2fpharmaceutical-sciences.1000217&partnerID=40&md5=cf9e6b55db254896d9c165c08a629c5f
963	Compositional-driven multiferroic properties in samarium substituted LaFeO3-PbTiO3 solid solutions	Multifunctional Materials Laboratory, Physics Department, Guru Nanak Dev University, Amritsar, India; Solid State Physics Division, Bhabha Atomic Research Centre, Trombay, Mumbai, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015072421&doi=10.1111%2fijac.12630&partnerID=40&md5=e5dcf82140afc6d98d4e5b56f5d10f6e
964	Study of structure and optical absorption in iso-coordinated a-InxSb20 – xAg10Se70 (0 ≤ x ≤ 20) chalcogenide films	Semiconductors Laboratory, Department of Physics, GND University, Amritsar, 143005, India; Department of Physics, DAV University, Sarmastpur, Jalandhar, 144012, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85007473719&doi=10.1016%2fj.inoncrvsol.2016.12.027&partnerID=40&md5=52f29c1173fe84c2b70fcdf3dfc9674
965	Phytosociology and landsat tm data: A case study from river beas bed, Punjab, India	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Botany, DAV University, Sarmastpur, Jalandhar, Punjab, 144012, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047005436&partnerID=40&md5=e2781583608f3783c3fccd0454bd3fce

966	Actinobacteria from soil as potential free radical scavengers	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85037721939&partnerID=40&md5=43a7070677dd68c71435b36acac739a0
967	Prediction of lycopene degradation during dehydration of watermelon pomace (cv Sugar Baby)	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143 005, India	2	2017	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020247585&doi=10.1016%2fj.issas.2015.03.003&partnerID=40&md5=2cac3758d35f18b43d4e1b3ab2b5775f
968	An investigation on structural and magnetically induced ferroelectricity in (1-x)Pb(Zr0.45Ti0.55)O3-(x)SmFeO3 solid solutions	Multifunctional Materials Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	6	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016721993&doi=10.1016%2fj.jallcom.2017.03.271&partnerID=40&md5=9274ef11377a03cd71454cf1f2916812
969	Microwave absorption characteristics of Co2+ and W4+ substituted M-type Ba0.5Sr0.5CoxWxFe12-2xO19 hexagonal ferrites	Department of Electronics and Communication Engineering, Rayat Bahra Institute of Engineering and Nanotechnology, Hoshiarpur, Punjab, India; Department of Electronics and Communication Engineering, Yadavindra College of Engineering, Punjabi University Guru Kashi Campus, Talwandi Sabo, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Electronics and Communication Engineering, I.K.G. Punjab Technical University, Kapurthla, India; Department of Physics, University School of Sciences, Gujarat University, Navrangpura, Ahmedabad, Gujarat, India	6	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84982261655&doi=10.1007%2fs10854-016-5515-0&partnerID=40&md5=251f23a304c1997d7110d7a4e2b76182
970	To delve about the charge transport properties of p-block elements doped M@B40(M = Al, Si, P, S) molecular device	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041410894&doi=10.1109%2fICCNCNT.2017.8203969&partnerID=40&md5=82ff84eb250da5fa2eacd61cd241dec2
971	24-Epibrassinolide Restores the Synthesis of Proteins and Amino Acids in Brassica juncea L. Leaves under Imidacloprid Stress	Plant Stress Physiology Lab, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041446808&doi=10.1515%2fjohr-2017-0024&partnerID=40&md5=e6cea89540a4649bc7158f03de1b5ba0
972	Bidirectional multi-optical line terminals incorporated converged WSN-PON network using M/M/1 queueing	IKG Punjab Technical University, Kapurthala, Punjab 144603, India; Shaheed Bhagat Singh State Technical Campus, Ferozepur, Punjab 152004, India; Khalsa College of Engineering and Technology, Amritsar 143001 Punjab, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031750519&doi=10.1016%2fj.vofte.2017.09.024&partnerID=40&md5=c7350c06f16ace46cd7df565c5830e0c
973	Modulation of microwave properties of La-Sr hexagonal ferrite with doping of Co-Zr and change in thickness	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85025460834&doi=10.1007%2fs10854-017-7508-z&partnerID=40&md5=00cc1ca250b94780aa0fc0b49859048e
974	Evaluation of Gain Spectrum of Silica-Based Single/Dual-Pumped Thulium-Doped Fiber Amplifier (TDFA) by Optimizing Its Physical and Pumping Parameters in the Scenario of Dense Wavelength Division Multiplexed Systems (DWDM)	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, 147001, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85037861475&doi=10.1515%2fjoc-2017-0100&partnerID=40&md5=7c9c0a5f69b9d764e9ea8f96907d5c6f
975	Analysis of electrical conduction phenomena in highly photosensitive amorphous InxSb20 – xAg10Se70 (0 ≤ x ≤ 20) chalcogenide films	Semiconductors Laboratory, Department of Physics, GND University, Amritsar, 143005, India; Department of Physics, DAV University, Sarmastpur, Jalandhar, 144012, India; Material Science Division, Inter University Accelerator Centre, New Delhi, 110067, India	6	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026489584&doi=10.1016%2fj.inoncrsol.2017.07.022&partnerID=40&md5=ed786c045ac8ed9a311bf027a1131c17
976	Genetic-variable neighborhood search with thread replication for mobile cloud computing	Department of Computer Science, Guru Nanak Dev University, Amritsar, India	1	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84976260759&doi=10.1080%2f17445760.2016.1188386&partnerID=40&md5=33fcfb3ecd39077e20da18d422e27efb
977	Basel III Norms: A SWOT and TOWS Approach	Department of Commerce and Business Administration, Khalsa College for Women, Amritsar, India; Department of Commerce, Guru Nanak Dev University, Amritsar, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028027844&doi=10.1177%2f0972262917716759&partnerID=40&md5=5e58988caba2ef34650cb3f0703c50f1
978	Understanding the interactions of polyhydroxy solutes with ammonium salts in aqueous solutions via calorimetric and spectroscopic studies at different temperatures	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026815827&doi=10.1016%2fj.molliq.2017.07.124&partnerID=40&md5=5d98a7f6a16498b7915bc93f5cc2316a
979	Propagation characteristics of ion-acoustic double layer in multicomponent inhomogeneous auroral zone plasma	Department of Physics, Khalsa College, Amritsar, 143 002, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Mathematics, Statistics and Physics, Punjab Agricultural University, Ludhiana, 141 004, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027301243&doi=10.1007%2fs12043-017-1429-5&partnerID=40&md5=e833d321a0505009bc988aef4d3ded4

980	Investigation of Electromagnetic Properties of La-Doped Strontium Ferrite in X and Ku Bands	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014651012&doi=10.1007%2fs10948-017-4024-6&partnerID=40&md5=0182143e25109ee9252f4ca3ea355e34
981	Analyzing Performance Implications of Selected Audit Committee Characteristics: A Study of Indian Corporate Sector	Department of Commerce, Khalsa College, Amritsar, Punjab, India	1	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048755201&doi=10.1177%2f2278533717692915&partnerID=40&md5=970670d7fb3684bbe804c576ca38509c
982	Role of adjustment as a mediator variable between cultural intelligence and well-being	Dept. of Psychology, Guru Nanak Dev University, Amritsar, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041564509&partnerID=40&md5=50476a7463a55d9977c3f5fd7fb5fa37
983	Performance evaluation of S-band Thulium doped silica fiber amplifier employing multiple pumping schemes	Guru Nanak Dev University, Department of Electronics Technology, Amritsar, 143001, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018763308&doi=10.1016%2fj.jleo.2017.04.098&partnerID=40&md5=9ec6d37a7787dd10209191d60ce8b059
984	Band structures in Pd 101	Department of Physics, Panjab University, Chandigarh, 160014, India; Department of Physics, University of Kashmir, Srinagar, 190006, India; Department of Physics, Govt. Degree College Kulgam192231, India; Department of Nuclear and Atomic Physics, TIFR, Mumbai, 400005, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, University of Notre Dame, Notre Dame, IN 46556, United States; Department of Chemistry and Biochemistry, University of Maryland, College Park, MD 20742, United States	15	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020789370&doi=10.1103%2fPhysRevC.95.064312&partnerID=40&md5=2e182f1e15cc262d4977217c2e585352
985	Changes in the leaf proteome profile of Withania somnifera (L.) Dunal in response to Alternaria alternata infection	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India; Biotechnology Division, CSIR-Institute of Himalayan Bioresource Technology, Palampur, Himachal Pradesh, India; Field Application Specialist-Life Science Group, Bio-rad Laboratories (India) Pvt. Ltd, Bangalore, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020196830&doi=10.1371%2fjournal.pone.0178924&partnerID=40&md5=d53dacda92966f4d22224d63a4b7fe85
986	A temperature-responsive gene in sorghum encodes a glycine-rich protein that interacts with calmodulin	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Biotechnology Division, Institute of Himalayan Bioresource Technology, Palampur, Himachal Pradesh 176061, India; Interdisciplinary Center for Plant Genomics and Department of Plant Molecular Biology, University of Delhi South Campus, New Delhi, 110021, India; Department of Biotechnology, Bhupat and Jyoti Mehta School of Biosciences, Indian Institute of Technology Madras, Chennai, 600036, India; Stress Physiology and Molecular Biology Laboratory, School of Life Sciences, Jawaharlal Nehru University, New Delhi, 110067, India	10	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015837730&doi=10.1016%2fj.biochi.2017.03.010&partnerID=40&md5=a8ec998fcbd56625828fbaef980fcdab
987	Effect of Fe2O3 doping on structural properties of ZnO-V2O5 based varistor system	Department of Physics, G.N.D.U Amritsar143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020297573&doi=10.1063%2f1.4980706&partnerID=40&md5=db5f6675_0845cdce483f222a3259822d
988	Bioresolution of racemic phenyl glycidyl ether by a putative recombinant epoxide hydrolase from Streptomyces griseus NBRC 13350	Department of Biochemistry, Panjab University, Sector 25, Chandigarh, 160 014, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143 005, India	6	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017006304&doi=10.1007%2fs11274-017-2248-z&partnerID=40&md5=b9c33b911e9b29b9b10b78a02e6c4727
989	Synthesis of Various N-Substituted 4-Aryloxy/Thiophenoxy/Thioisopropoxy-Phthalimides	Department of Chemistry, Umeå University, Linnaeus väg 10, Umeå, 901 87, Sweden; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041718373&doi=10.1002%2fslct.201700721&partnerID=40&md5=beb5_9c20b6e756e83de4b9791c3b1c13
990	Room temperature synthesis of wurtzite phase nanostructured ZnS and accompanied enhancement in dielectric constant	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Indian Institute of Science Education and Research, Pune, Dr. Homi Bhabha Road, Pashan, Pune, 411008, India	6	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016796230&doi=10.1063%2f1.4979781&partnerID=40&md5=53768a34_8076dbecf8599b3d18b34620
991	Click analytics: What clicks on webpage indicates?	Department of CSE, Lovely Professional University, Phagwara, Punjab, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017247412&doi=10.1109%2fNGCT.2016.7877485&partnerID=40&md5=9af7aa9e29b20b7fd3b9cfe73c323e50
992	Bio-inspired optimization techniques for job scheduling in grid computing	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015069823&doi=10.1109%2fFOAS2016.0998&partnerID=40&md5=-8cfc669c02e7d2c3a236b44c0493103d
993	Indian wheat (Triticum aestivum L.) cultivars: Physical characteristics, micronutrients and heavy metal content	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027284904&doi=10.3920%2fFOAS2016.0998&partnerID=40&md5=42bd_692fb1ec90de9324c633857e5b0e

994	Physical characteristics of different oat cultivars: Influence on pasting, functional and antioxidant properties	Department of Food Science and Technology, Guru Nanak Dev University, GT Road, Amritsar, 143005, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027280535&doi=10.3920%2fQAS2016.0987&partnerID=40&md5=a0ca0367a03e988000712500a210f76b
995	Evaluation of anxiolytic effect of melilotus officinalis extracts in mice	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143 005, India; University Institute of Pharmaceutical Sciences, Panjab University, Chandigarh, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020931599&doi=10.22159%2fajpcr.2017.v10i6.17183&partnerID=40&md5=e00b2c1f782e4a6e61085c187087bfae
996	ICCBP: Inter cluster chain based protocol with cross layer interaction for randomly deployed wireless sensor networks	Department of Computer Science, IKG Punjab Technical University, Jalandhar, Punjab, India; ECE, CGC Technical Campus, Jhenjeri, Chandigarh, PB, India; ECE, GNDU Regional Campus, Jalandhar, PB, India; School of Computer & Engineering, Kyungpook National University, Daegu, South Korea; Electrical and Computer Engineering, Dept., San Diego State University, United States; Department of Electrical & Computer Engineering, West Virginia UniversityWV, United States	6	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020781849&partnerID=40&md5=870206cb3fa12b1310febe350447347e
997	Retrial bulk queue with state dependent arrival and negative customers	Department of Mathematics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Mathematics, Indian Institute of Technology Roorkee, Roorkee, 247667, India; Department of Applied Sciences, Khalsa College of Engineering & Technology, Amritsar, 143002, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018417946&doi=10.1007%2f978-981-10-3325-4_29&partnerID=40&md5=070cff2cb11c439c48c29efcb21f952f
998	Hg2+ triggered ‘off state-on state’ conversion of a dipyrrene derivative: Application to soft material	Department of Chemistry, UGC-Centre for Advance Studies-II, Guru Nanak Dev University, Amritsar, 143005, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85008343555&doi=10.1016%2fi.snb.2016.12.150&partnerID=40&md5=bd07372d8f1f2a211ebee238d36becf7
999	2-(chromon-3-yl)imidazole derivatives as potential antimicrobial agents: synthesis, biological evaluation and molecular docking studies	Bio-organic and Photochemistry Laboratory, Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab -143005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab -143005, India; Department of Pharmacy, School of Chemical Sciences and Pharmacy, Central University of Rajasthan, Ajmer, Rajasthan 305817, India	6	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84995475775&doi=10.1007%2fs12154-016-0162-8&partnerID=40&md5=5f38a14024f696aa8713e7a6f9c18a0f
1000	Comprehensive review of techniques used to detect skin lesion	Department of Computer Engg. and Technology, Guru Nanank Dev University, Amritsar, 143001, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046550679&doi=10.1109%2f2ICT.2017.8226102&partnerID=40&md5=7de87bd245afec51508343707795640f
1001	Nematode stress mitigation by polyamine application in lycopersicon esculentum	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053786450&partnerID=40&md5=d1bfbc32ff672e9bf9cf3557356842c4
1002	Study of aluminium-modified Ge2Sb2Te5 thin films for the applicability as phase-change storage device material	Semiconductors Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, India; Department of Physics, DAV University, Jalandhar, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017169795&doi=10.1080%2f01411594.2017.1309402&partnerID=40&md5=48b9a1b3121f294ba2dc3de5bffe8f2c
1003	Optimisation of LTE system with open- and closed-loop spatial multiplexing transmission modes	Electronics & Communication Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045834941&doi=10.1080%2f1448837X.2018.1465375&partnerID=40&md5=a9e3e601754d2a627bca137bf2d00e03
1004	Prevalence of cytogenetic anomalies in couples with recurrent miscarriages: A Case-control study	Cytogenetics Laboratory, Institute of Medical Genetics and Genomics, Sir Ganga Ram Hospital, New Delhi, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042259117&doi=10.4103%2fjhrs.JHRS_68_17&partnerID=40&md5=c94d8b953369ca82b0235a5df11e0363
1005	Effect of composition on steady state and transient photoconductivity in isoordinated InxB30-xSe70 (0 ≤ x ≤ 25) chalcogenide films	Semiconductors Laboratory, Department of Physics, GND University, Amritsar, 143005, India; Department of Physics, DAV University, Sarmastpur, Jalandhar, 144012, India; Material Science Division, Inter University Accelerator Centre, New Delhi, 110067, India	6	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020411752&doi=10.1007%2fs10854-017-7277-8&partnerID=40&md5=526d31f9121c050416851ca0119c5b88
1006	Neuromodulatory role of withania somnifera	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063007652&doi=10.1007%2f978-3-319-59192-6_20&partnerID=40&md5=52c3f75152436d7ef5a224f1e9cb4777
1007	Bioactivity Guided Isolation, Characterization and Quantification of an Anxiolytic Constituent - Kaempferol, from Melilotus officinalis Aerial Parts	Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143001, India; University Institute of Pharmaceutical Sciences, Panjab University, Chandigarh, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063990839&doi=10.1080%2f22311866.2017.1378923&partnerID=40&md5=fe911d7977934c9c1da7af5aa1934c3

1008	Assessment of metabolic syndrome and clinical significance of brachial-ankle pulse wave velocity in type 2 diabetes mellitus patients	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India; Carewell Heart and Superspecialty Hospital, Amritsar, Punjab, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041693444&doi=10.1515%2frjdnmd-2017-0027&partnerID=40&md5=4268130e876a40b950251c569e1fedc6
1009	Interactive role of endothelial nitric oxide synthase gene polymorphisms in T2D with CAD and CAD patients of Punjab (North-West India)	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029547089&doi=10.1007%2fs13410-016-0503-8&partnerID=40&md5=c2353a08a224de89aca5ec344cdf2e51
1010	Smallest fullerene-like clusters in two-probe device junctions: first principle study	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017231245&doi=10.1080%2f00268976.2017.1314033&partnerID=40&md5=e4fdd95fd2e8b52086815c9ac1abc0f3
1011	Gamma ray induced modifications in cellulose triacetate polymer used as a solid-state nuclear track detector	Department of Physics, Kanya Maha Vidhayalya, Jalandhar, 144004, India; Department of Physics, Lovely Profssional University, Chaheru, Phagwara, 144411, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85025837374&doi=10.1063%2f1.4990308&partnerID=40&md5=ecae6051981d60a542cbccf1387d99b0
1012	Investigation of bioactive CaO-P2O5-MgO-SiO2 ceramic composition for orthopedic applications	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020316375&doi=10.1063%2f1.4980810&partnerID=40&md5=2990ac1d0a8a96588c029373117eee0c
1013	Gamma ray shielding and structural properties of PbO-P2O5-Na2WO4 glass system	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020308482&doi=10.1063%2f1.4980454&partnerID=40&md5=fb18cfc08eb4293335a9bcf942457da5
1014	Thermal characteristics, Raman spectra, optical and structural properties of TiO2-Bi2O3-B2O3-TeO2 glasses	Sensors and Glasses Physics Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Chemistry and Process and Recourse Engineering, University of Cantabria, Santander, 39005, Spain; Institute of General and Inorganic Chemistry, Bulgarian Academy of Sciences, Acad. G. Bonchev Str. Blvd. 11, Sofia, 1113, Bulgaria	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020286236&doi=10.1063%2f1.4980440&partnerID=40&md5=91a8adcbf40cbe4eeb215c98032b31b7
1015	Short-range structure and thermal properties of barium tellurite glasses	Sensors and Glass Physics Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Chemistry and Process and Recourse Engineering, University of Cantabria, Santander, 39005, Spain	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020262936&doi=10.1063%2f1.4980450&partnerID=40&md5=6e532c24972943650b8c8dc93b2ebdd3
1016	Short-range structure and thermal properties of lead tellurite glasses	Sensors and Glass Physics Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Chemistry and Process and Recourse Engineering, University of Cantabria, Santander, 39005, Spain	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020245094&doi=10.1063%2f1.4980457&partnerID=40&md5=0fa7e90028116b2e344b7b34017cd111
1017	Dinuclear PdII/PtII complexes [M2(phosphine)n(thio-ligand)3]Cl incorporating N,S-bridged pyridine-2-thiolate and benzimidazoline-2-thiolate	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemistry, Howard University, 525 College Street NW, Washington, DC, 20059, United States; Departamento de Quimica Inorganica, Facultad de Farmacia, Universidad de Santiago, Santiago, Spain	7	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85013374636&doi=10.1016%2fj.poly.2017.01.042&partnerID=40&md5=c0547d7b0dee953bfdfa9eef91cee4f1
1018	Tailoring of Hetero-oligophenylene Stabilized Nanohybrid Materials: Potential Tandem Photo-Promoted Systems for C–C and C–X Bond Formation Reactions via C-H Activation	Department of Chemistry, Guru Nanak Dev University, Amritsar, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041553278&doi=10.1002%2fslct.201700101&partnerID=40&md5=c13d4b733a54550a1cc679db30df6680
1019	Comparative review of evaluating and depleting energy hole problem in wireless sensor network	Department of Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020169220&doi=10.1109%2fGET.2016.7916719&partnerID=40&md5=e7de613383944d6de9a52abc4fd528a
1020	Decolourization of textile dyebath chloride rich wastewater by electrolytic processes	School of Energy and Environment, Thapar University, Patiala, Punjab, 147004, India; Department of Botanical and Environmental sciences, Guru Nanak Dev University, Amritsar, Punjab, 143001, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019639681&doi=10.20964%2f2017.05.63&partnerID=40&md5=faaed80c218c21cee760a40625a7b910
1021	Fullerene as alligator clips for electrical conduction through anthracene molecular junctions	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143 001, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019188389&doi=10.1007%2fs12043-017-1377-0&partnerID=40&md5=2772f475b892594fcc64d858de0f00f8
1022	Genetic dissection of five ethnic groups from Punjab, North-West India–A study based on Autosomal Markers	Department of Anthropology, Panjab University, Chandigarh, 160014, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014657458&doi=10.1016%2fj.legalmed.2017.02.003&partnerID=40&md5=000bfa3d41b2db6fe130226c10e30caf

1023	Experimental and DFT Studies of Organocatalytic Microwave-Assisted Reaction of Isatin Derivatives with Dinitrotoluenes	Department of Chemistry, U.G.C. Centre of Advance Studies in Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, DAV University, Jalandhar, 144012, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014029570&doi=10.1002%2faipc.201600614&partnerID=40&md5=1970c7c5cf36511865d1fc6bc360b3bc
1024	Associating genetic variation at Perilipin 1, Complement Factor D and Adiponectin loci to the bone health status in North Indian population	Department of Human Genetics, Guru Nanak Dev University, Amritsar, 143005, India; Centre for Stem Cell and Tissue Engineering, Panjab University, Chandigarh, 160014, India; Biotechnology Branch, UIET, Panjab University, Chandigarh, 160014, India; Department of Anthropology, Panjab University, Chandigarh, 160014, India	7	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014414888&doi=10.1016%2fj.gene.2017.02.009&partnerID=40&md5=86aa5b8cd48e64bae37958acf2c6780
1025	Moisture Sorption Characteristics of Dehydrated Watermelon (Citrullus lanatus Thunb) Pomace Wastes	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143 005, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018362414&doi=10.1111%2ffjpp.12783&partnerID=40&md5=4b76125b9deda0b31980638360c6d32a
1026	Linear response formulism of a carbon nano-onion stringed to gold electrodes	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143001, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016806617&doi=10.1007%2fs00339-017-0906-5&partnerID=40&md5=74e7cfaf0101c887303b5ae17dd24a91
1027	Antibacterial activity of some medicinal plants of Kashmir, J&K, India	Department of Clinical Veterinary Medicine, Ethics and Jurisprudence, Faculty of Veterinary and Animal Science, SKUAST-KJandK, India; Division of Veterinary Gynaecology and Obstetrics, Khalsa College of Veterinary and Animal Sciences, Amritsar, 143001, India; Division of Veterinary Microbiology and Immunology, Faculty of Veterinary Sciences and Animal Husbandry, Sher-e-Kashmir University of Agricultural Sciences and Technology, Kashmir, JandK, 190006, India	6	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017634978&doi=10.22207%2fjPAM.11.1.68&partnerID=40&md5=ac9095f5a3087f4f20219491253eb427
1028	A survey of PHY and MAC technologies of high data rate WPAN	Dept. of Electronics and Communications Engineering, GNDU Regional Campus, Jalandhar, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015851691&doi=10.1109%2fICPEICES.2016.7853389&partnerID=40&md5=f62b0311d6409382d2ddf56fd2aa935
1029	Improving the color image segmentation using fuzzy-C-means	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, Punjab, India	2	2017	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014164649&doi=10.1109%2fICACCCT.2016.7831747&partnerID=40&md5=ace668d804fe18f0143b72d4063cfce4
1030	Supramolecular Ensemble of Aggregates of Pentacenequinone Derivative and Cadmium NPs: A Potential Catalytic/Photocatalytic System for Direct C-H Activation of Quinones and Azoles	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-1, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041713824&doi=10.1002%2fslct.201601747&partnerID=40&md5=f6a165201085519fb55af42ff74ab767
1031	Choice of Diversification Strategies in an Emerging Market: Evidence from Indian Manufacturing Industries	Guru Nanak Dev University, Amritsar, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85012050584&doi=10.1080%2f10599231.2016.1272994&partnerID=40&md5=7af90fc9fec138112ef7d88691c99b95
1032	Comparative Study of Techniques and Issues in Data Clustering	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071380715&doi=10.1007%2f978-981-10-3818-1_1&partnerID=40&md5=c4f77f19128697e78273f7a8cae95dac
1033	Disparities in agriculture income across the Indian states	Department of Economics, DAV College, Bathinda, Punjab, 151001, India; Punjab School of Economics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066458310&doi=10.1007%2f978-981-10-6014-4_8&partnerID=40&md5=5d4f8bd4b8fe98b15c9632157c452c95
1034	Antioxidant, antigenotoxic and cytotoxic activity of anthocephalus cadamba (Roxb.) Miq. Bark fractions and their phytochemical analysis using UPLC-ESI-QTOF-MS	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143 005, India; Akal College of Basic Sciences (Botany), Eternal University, Baru Sahib, SirmourHimachal Pradesh 173101, India; Natural Product Chemistry and Process Development Division, CSIR-Institute of Himalayan Bioresource Technology, Palampur, HP 176 061, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047960694&doi=10.2174%2f1386207320666170615102124&partnerID=40&md5=f6d61747a0d7b7e1f549e0d6f2a5bcb6
1035	Polyphenols from Cutch tree (Acacia catechu Willd.): Normalize in vitro oxidative stress and exerts antiproliferative activity	Guru Nanak Dev University, Department of Botanical and Environmental Sciences, Amritsar, Punjab, India; DAV University, Department of Botany, Jalandhar, Punjab, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041531850&doi=10.1590%2f1678-4324-2017160728&partnerID=40&md5=47be13a35e84f6ed7ebadb4f8e74aa8b
1036	Distinctive approach to design tree in Wavelet Packet based OFDM system	Shaheed Bhagat Singh State Technical Campus, Ferozepur, Punjab, 152004, India; Guru Nanak Dev University, Amritsar, Punjab, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040246667&doi=10.25103%2fjestr.106.03&partnerID=40&md5=cf1d5740db9b41b37aeed1436f1a9872

1037	Oil spill cleanup by textiles	Department of Textile Chemistry, Faculty of Technology and Engineering, The Maharaja Sayajirao University of Baroda, Vadodara, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85036454634&doi=10.1002%2f9781119441632.ch64&partnerID=40&md5=d6eb53984a42e40e6b3cbd1ef9f8ae83
1038	Bismuth(III) complexes with bis(dimethylphenyl) dithiophosphates: Synthesis, characterization and crystal structure of [[[3,5-CH3)2C6H3O)2PS2]3Bi	Department of Chemistry, University of Jammu, Baba Saheb Ambedkar Road, Jammu, JK 180006, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	6	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028729415&doi=10.17344%2facsi.2017.3545&partnerID=40&md5=4c94a8f89f63420bd48d804719ab4dbd
1039	Increasing route availability in internet of vehicles using ant colony optimization	Department of Computer Science and Engineering, Lyallpur Khalsa College of Engineering, Jalandhar, India; Department of Computer Science and Engineering, GNDU RC Jalandhar, Jalandhar, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028317425&doi=10.1007%2f978-981-10-5780-9_29&partnerID=40&md5=d4d863103f911215548a0beec234c627
1040	α -L-arabinofuranosidase from an efficient hemicellulolytic fungus <i>Penicillium janthinellum</i> capable of hydrolyzing wheat and rye arabinoxylan to arabinose	Guru Nanak Dev University, Department of Microbiology, Amritsar, Punjab, 143005, India; Indian Institute of Horticultural Research, Post-Harvest Technology, Bengaluru, Karnataka, 560089, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85024498373&doi=10.15414%2fimbfs.2017.6.5.1132-1139&partnerID=40&md5=a93d0609d323144f624d50480ab8fc30
1041	Can THF hydrogen bond to glycine as strong as water?	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020016079&doi=10.1139%2fcic-2016-0604&partnerID=40&md5=b9d79fb2e304e3c4e7e0e9c0a4413ffd
1042	Reduction of chromano–piperidine-fused isoxazolidines: Tandem intramolecular rearrangements leading to 2-(methylamino)-4-oxo-N-phenyl-N-propyl-4H-chromene-3-carboxamide	Bio-Organic and Photochemistry Laboratory, Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143 005, India; Post-Graduate Department of Physics & Electronics, University of Jammu, Jammu Tawi, 180 006, India; Maharaja Ranjit Singh Punjab Technical University, Badal Road, Bathinda, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019827917&doi=10.1016%2fj.tetlet.2017.05.032&partnerID=40&md5=7236d8916b62245565ed41fed878b7f
1043	Study of pruritus vulvae in geriatric age group in tertiary hospital	Department of Dermatology, Venereology, Leprosy, Sri Guru Ram das Institute of Medical Sciences and Research, Khalsa College, 451 A, Guru Arjan Dev Nagar, Amritsar, Punjab, India; Department of Dermatology, Venereology, Leprosy, Government Medical College, Amritsar, Punjab, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018461442&doi=10.4103%2f0253-7184.192632&partnerID=40&md5=9aac754c3925b1cd0f5ff5c83c04dbee
1044	Influence of Sn substitution on microwave properties of lead calcium iron niobate	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84982182069&doi=10.1007%2fs10854-016-5497-y&partnerID=40&md5=2cd59e96c071a4585f70b0741247af34
1045	To elucidate the conductive behaviour of transition metals (Mn, Fe, Co, Ni) doped C20 molecular device	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041391757&doi=10.1109%2fICCNCNT.2017.8203968&partnerID=40&md5=dfdf4c9769cdc5e5fbbf330f270574ec
1046	In vitro selection of resistant/tolerant mutants lines of Citrus jambhiri Lush. using crude culture filtrate of Phytophthora parasitica and their randomly amplified polymorphic DNA analysis	Botany Department, Hindu College, University of Delhi, New Delhi, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85033444651&doi=10.1111%2fjph.12617&partnerID=40&md5=0918d925e436cd377f2b6e6b0a42f800
1047	24-Epibrassinolide reduces stress in nematode-infected tomato (<i>Solanum lycopersicum</i> L.) plants cultured in vitro	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032795725&doi=10.1007%2fs11627-017-9859-9&partnerID=40&md5=607ccf9ac73c76af8f34cb579c78b9a9
1048	β -Lactam-Syntho-Interceded Metal/Acid-Free Diastereoselective Access to Highly Functionalized Oxazol-5-ones and Dihydroimidazoles	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Khalsa College, Amritsar, 143005, India	6	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027979222&doi=10.1055%2fs-0036-1588531&partnerID=40&md5=3b9fd92b082e0ff078d645b3db70c00a
1049	A new sub-optimum four-wave mixing minimization method and its comparative performance analysis for a fiber optic based information system	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045854606&doi=10.1109%2fIEMCON.2017.8117144&partnerID=40&md5=36640e87b74db28bf3976a1c0f7a9fb3
1050	Performance Analysis for Downstream Next Generation Converged WSN-PON ODN Network Incorporating Diverse Phase Delay	Research Scholar, Dept. of Electronic Engineering, I K Gujral Pujnab Technical University, Kapurthala, India; Dept. of Electronics & Communication Engineering, Beant College of Engineering and Technology, Gurdaspur, India; Dept. of ECE, Khalsa College of Engineering and Technology, Amritsar, India; Dept. of Electronics & Communication Engineering, Shaheed Bhagat Singh State Tech Campus, Ferozepur, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85037746213&doi=10.1080%2f01468030.2017.1407465&partnerID=40&md5=33d65473fb07a885835fec76648aab14

1051	Polarizability and magic wavelength of Yb+ clock transition $2S_{1/2} \rightarrow 2D_{3/2}$	Time and Frequency Division, CSIR-NPL, New Delhi, India; Academy of Scientific and Innovation Research (AcSIR), CSIRNPL Campus, New Delhi, India; Department of Physics, Guru Nanak Dev University, Amritsar, India; Theoretical Physics Division, Physical Research Laboratory, Ahmedabad, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040164669&doi=10.1109%2fFCS.2017.8089022&partnerID=40&md5=970bb4e5f00a1ad727c5381c26a8306b
1052	Comparative study of chromium oxide nanorods and nanoparticles as ethanol sensors	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85039918773&doi=10.1109%2fCEmElec.2016.8074613&partnerID=40&md5=0dc087580e6d5a97761e1f47fc4073d5
1053	The density functional implementation of hybrid graphene devices stringed to c20 fullerene	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, 143001, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041112650&doi=10.1166%2fno.2017.2116&partnerID=40&md5=915a928f615c80750a0e7b51f37f85f1
1054	Effect of thermal expansion mismatch in grating material and host specimen on thermal sensitivity of FBG sensor	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India	3	2017	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85013764157&doi=10.1007%2fs11107-017-0693-0&partnerID=40&md5=07205bb70007894e00f4571452251416
1055	Theoretical investigation of effect of pore size and pore passivation on the thermoelectric performance of silicene nanoribbons	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University, Ladhewali, Punjab, 144007, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046652989&doi=10.1557%2fjmr.2017.326&partnerID=40&md5=ac9c75f0fd180d04e9d35692a709aa4
1056	Allium cepa root chromosomal aberration assay: An application in assessing anti-genotoxic potential of ashwagandha	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062972925&doi=10.1007%2f978-3-319-59192-6_3&partnerID=40&md5=70733bac5522ed860eb90003a8654399
1057	Antioxidant, antimutagenic and cytotoxic effects of unripe fruits of anthocephalus CaDamba (ROXB.) miq.	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143 005, India	6	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031326979&partnerID=40&md5=08a009ba48cea7f6a2e525bfd948bfbf
1058	Pharmacognostic screening studies of Justicia Gendarussa burm. Leaves found in dehradun district of Uttarakhand	Department of Pharmaceutical Sciences, Lovely Professional UniversityPunjab, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India; Department of Ayurvedic Pharmaceutical Sciences, Lovely Professional UniversityPunjab, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029702582&doi=10.22159%2fajpcr.2017.v10s4.21342&partnerID=40&md5=0078569e0d80a894097bcf81c89dfd7f
1059	Reconnoitring the current characteristics of the double C20 fullerene molecular device in two probe configuration	Department of Electronics Technology, Guru Nanak Dev University, Teacher's Flat No. 21, Residential Area, Amritsar, Punjab 143005, India; 507 Guru Teg Bahadur Nagar, Jalandhar, Punjab 144003, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027051148&doi=10.1007%2fs00894-017-3430-9&partnerID=40&md5=099d5cbc8031f98198119842a73c2356
1060	Religious pluralism in Punjab: A contemporary account of Sikh sants, babas, gurus and satgurus	Guru Nanak Dev University, Amritsar, India	1	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040760300&doi=10.4324%2f9781315271866&partnerID=40&md5=1475f8f909c927f206df57ee45d80af8
1061	Unveiling the Factors Affecting Profitability of Reinsurance Companies	University Business School, Guru Nanak Dev University, Amritsar, India; Research Fellow, University Business School, Guru Nanak Dev University, Amritsar, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85101711769&doi=10.1177%2f0258042X17720062&partnerID=40&md5=4840decdebc98cc96dc87da1428f99d3
1062	Another proof of the binomial theorem	Guru Nanak Dev University, Amritsar, India	1	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032641623&doi=10.4169%2famer.math.monthly.124.7.658&partnerID=40&md5=3c10af4b152a449db299e419211dda39
1063	Spectral and optoelectronic studies on 7,12,17-trioxa and 7,12,17-trithia [11] helixenes: a DFT view	Department of Chemistry, U.G.C. Centre of Advance Studies in Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85024503294&doi=10.1007%2fs12648-017-1000-8&partnerID=40&md5=b4222488c9c3b976088a7945272f42ac
1064	Caspases: Moonlighting proteins with theranostic potential	Department of Biochemistry and Biotechnology, Faculty of Science, Annamalai University, Annamalaiagar, Chidambaram, Tamil Nadu, 608002, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055068813&doi=10.1007%2f978-981-10-3162-5_17&partnerID=40&md5=2ff485d556e98ab4840b706d96aa6636
1065	Comparative study on various single image defogging techniques	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026661676&doi=10.1109%2fAIEICB.2017.7972331&partnerID=40&md5=d5e015d4c2ec2a284da7afb6c9100c42
1066	Impact of intellectual property rights on international trade: Evidence from India	DAV College, Amritsar, Punjab 143 001, India; Punjab School of Economics, Guru Nanak Dev University, Amritsar, Punjab 143 001, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85033238965&partnerID=40&md5=069e867036dd9275939c14401c7f0789

1067	Microbial protein estimation in Murrah buffalo calves fed on diets with varying levels of energy and protein	ICAR-National Dairy Research Institute, Karnal, Haryana, 132 001, India; Animal Nutrition, College of Veterinary Science and Animal Husbandry, Bilaspur, Chhattisgarh, India; Animal Nutrition, Khalsa College of Veterinary and Animal Science, Amritsar, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85025112801&partnerID=40&md5=8a83ff894fc055dad95b5fce8e0bec9
1068	Study on the effect of bending on CNT's flexible antennas	Global College of Engineering and Technology, Kahnpur Khui, 140 117, India; Guru Nanak Dev University, Amritsar, 143 001, India; Lovely Professional University, Jalandhar, 144 411, India; G J U University, Hissar, 125 001, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85024499492&partnerID=40&md5=f67750fa655f6d95b09bcc1138c42e3c
1069	Approaches for bioprospecting cellulases	Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85033327752&doi=10.1007%2f978-3-319-54684-1_4&partnerID=40&md5=f4e6e78cd353f5dfd5af23e8064e3852
1070	Electron transport in doped fullerene molecular junctions	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, 143001, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070223750&doi=10.1142%2fS2047684117500191&partnerID=40&md5=ad7e72d12b151835531a4f1cd1519c9
1071	Sustainability Reporting under G3 Guidelines: A Study on Constituents of Bovespa Index	Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Commerce and Business Management, Khalsa College for Women, Amritsar, Punjab, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85021709347&doi=10.1177%2f0972262917701031&partnerID=40&md5=adad78ef395d2449ebc0b314d9fc040e
1072	Sequence-independent Amplification with Genome Multiplexing to Establish Complete Genome of Multipartite RNA Viruses: Cucumber mosaic virus as a Case Study	Academy of Scientific and Innovative Research (AcSIR), CSIR-Institute of Himalayan Bioresource Technology (CSIR-IHBT) Campus, Palampur, 176061, India; Plant Virology Lab, Biotechnology Division, CSIR-Institute of Himalayan Bioresource Technology, Palampur, HP 176061, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, 143005, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018588707&doi=10.1111%2fjph.12569&partnerID=40&md5=61c46a7577879eedb8b14db97026645e
1073	Performance Analysis of Multihop Wireless Communication Using Generalized-K Fading Model	Department of Mathematics, Guru Nanak Dev University College, Jalandhar, India	1	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988723937&doi=10.1007%2fs11277-016-3723-9&partnerID=40&md5=6445a43506e8debb315b87e6ebe3144a
1074	Influence of Dy doping on structural, morphological and gas sensing properties of ZnO	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	7	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020253972&doi=10.1063%2f1.4980303&partnerID=40&md5=4dfcd79d1f0ccf2a81afde2ac96d1305
1075	Diaspora, yearning for roots and moral action	Guru Nanak University, India	1	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018770349&doi=10.1177%2f0020872815617995&partnerID=40&md5=2528ed19b37b3e2e1658bb7810d8625b
1076	Dual approach of nanoemulsion and natural permeation enhancer endorse skin targeting of acyclovir	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	6	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015685193&doi=10.2174%2f1573413713666161108115740&partnerID=40&md5=e047293edd2735684d76eae5a22b891e
1077	Investigation of fine-structure dips in fission-fragment mass distribution: An asymmetric two centre shell model approach	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	1	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85013656932&doi=10.1016%2fj.nuclphysa.2017.02.009&partnerID=40&md5=b3446f5a70eb296b00b64b901be3b1e5
1078	Transformation of 1,3-imidazolidine-2-thione (SC3H6N2) into (SC3H4N2–O–N2C3H4S)2– dianion chelated in [Pd{κ 3–S, O, S–(SC3H4N2–O–N2C3H4S)}(PPH3)]·CH3CN	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143 005, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015659419&doi=10.1007%2fs12039-017-1242-1&partnerID=40&md5=adc500a8fb41334a74091a0eaf6a3bb9
1079	A comparative review of various segmentation techniques for early detection of exudates in retinal fundus images	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015836594&doi=10.1109%2fICIPICES.2016.7853259&partnerID=40&md5=292cb85b7d6b028f75699694457d073b
1080	Silver selective electrodes using ionophores functionalized with thioether–amide–amine	Department of Chemistry, GSSDGS Khalsa College Patiala, Patiala, 147001, India; Department of Chemistry School of Advanced Sciences, VIT University, Vellore, 632014, India; School of Chemistry & Biochemistry, Thapar University Patiala, Patiala, 147004, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014435557&doi=10.1134%2fS1061934817020083&partnerID=40&md5=cb7e42ca2906040180bcd2f2588f52ad
1081	RF-MEMS-based DPDT switch on silicon substrate for ku-band space-borne applications	Department of Electronics & Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, 144009, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85013413589&doi=10.4313%2fTEEM.2017.18.1.16&partnerID=40&md5=a7723079f2d0adf98610cbc09d106514
1082	Wideband and Narrowband Microwave Characteristics of Co/Ti-Substituted M-Type Ca-Hexagonal Ferrite	Department of Electronics and Communication Engineering, Rayat Bahra Institute of Engineering and Nanotechnology, Hoshiarpur, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991109415&doi=10.1007%2fs11664-016-4943-1&partnerID=40&md5=bf4319d441669f26147d9fac2aafec04

1083	Thickness-dependent electrical and optical properties of Ge8Sb2Te11 thin films	Department of Physics, DAV University, Jalandhar, India; Department of Physics, Guru Nanak Dev University, Amritsar, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84963543095&doi=10.1080%2f01411594.2016.1172227&partnerID=40&md5=606ddb360c8a41ca84e5ac6bea35945
1084	Evaluation of SAD-BJP government (2007-17)	Department of Political Science, Guru Nanak Dev University, Amritsar, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85010295256&partnerID=40&md5=b4b3a93e33ba6aa9c6dc51c36e6ec33d
1085	Understanding language profile of open source software using association rule mining	Dept. of Computer Science, Guru Nanak Dev University, Amritsar, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84998714984&doi=10.1109%2fFTC.2016.7821760&partnerID=40&md5=494c74d5a987fe12d094d683040554b5
1086	Designing and analysis of user profiling system for cloud computing security using fuzzy guided genetic algorithm	Punjab Institute of Technology Kapurthala, PTU Main Campus, Kapurthala, India; Guru Nanak Dev University, Regional Campus, Gurdaspur, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85011015792&doi=10.1109%2fCCAA.2016.7813823&partnerID=40&md5=195c84bb0e95ea2e271e2e242281b97a
1087	Improved QRS detector using hybrid MAMEMI filter	Dept of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015086522&doi=10.1109%2fTEICT.2016.7808051&partnerID=40&md5=2ed2d627ae49b6e8b038f84a03691bb4
1088	Comparative study of text detection in natural scene images	Guru Nanak Dev University, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015036014&doi=10.1109%2fTEICT.2016.7808183&partnerID=40&md5=92b798516f37680ec24c42d620d51fb5
1089	A Survey on Computation Offloading Techniques in Mobile Cloud Computing and Their Parametric Comparison	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078702967&doi=10.1007%2f978-981-10-3818-1_9&partnerID=40&md5=5818bde5860bea41438e646757a3d4f0
1090	Nanoemulsions for improved efficacy of phytotherapeutics- A patent perspective	Department of Pharmaceutics, Khalsa College of Pharmacy, Amritsar, India; Department of Oral and Maxillofacial Pathology, Sri Guru Ram Das Institute of Dental Sciences and Research, Amritsar, India; Department of Pharmaceutics, Faculty of Pharmacy, Jamia Hamdard, New Delhi, India	7	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032874617&doi=10.2174%2f1872210510666161228130220&partnerID=40&md5=7f4cbfc80f2010336fe4a1f682e28f
1091	Improved Magnetic Properties of Ethylene Glycol Passivated Fe Doped ZnS Nanoparticles	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032013307&doi=10.1016%2fj.matpr.2017.06.204&partnerID=40&md5=f4d6c4c2051759b121da5eb4fff5c8d2
1092	Determinants of firm location choice in large cities in India: A binary logit model analysis	Department of Economics, Adamas University, Adamas Knowledge City, Jagannathpur, Kolkata, 700126, India; Department of Economics, Guru Nanak College, Guru Nanak Dev University, Sukhchainana Sahib, Phagwara, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026744092&partnerID=40&md5=846346d5e5a919c15314fd1be95262c3
1093	Simultaneous strong proximality in Banach spaces	Department of Mathematics, Guru Nanak Dev University, Amritsar, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019586088&doi=10.3906%2fmat-1604-20&partnerID=40&md5=650b2c44bfd7b5dc05cb6a1b208654d5
1094	Bioprotective efficacy of erucin against 7,12-dimethylbenz(α)Anthracene-induced microstructural changes in male wistar rats	Department of Pathology, Sri Guru Ram Das Institute of Medical Sciences and Research, Amritsar, India; Department of Biochemistry, Sri Guru Ram Das Institute of Medical Sciences and Research, Amritsar, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Pathology, Vardhman Mahavir Medical College and Safdarjung Hospital, New Delhi, India	6	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018997832&doi=10.5146%2ftjpath.2016.01381&partnerID=40&md5=628cb273a04580d813b4fec75ad3e2bf
1095	Factors influencing the choice of financial advisor by women stock investors in Punjab: An empirical study	Department of Commerce, Guru Nanak Dev University, Amritsar, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016245100&doi=10.1108%2fJULMA-09-2015-0051&partnerID=40&md5=f0f32dee13cd14a343fc5660619b5fd7
1096	A Mathematical Approach to a More Accurate Determination of Critical Micelle Concentration and Other Thermodynamic Parameters of 14-2-14 Gemini Surfactant in Water–Organic Solvent Mixed Media at Variable Temperatures	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Mathematics, DAV College, Amritsar, Punjab 143001, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84994406625&doi=10.1007%2fs11743-016-1903-y&partnerID=40&md5=3f40d79af97149a49563abc58f9eb9a0
1097	Evolution of optical sensors for determining the concentration of liquid solutions and their temperature sensitivity	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	5	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041417025&doi=10.1109%2fICCNT.2017.8203975&partnerID=40&md5=5d1e12d61cc20e840823116e0c43a8e9
1098	Performance analysis of adaptive receive diversity technique	Department of Electronics and Communication Engineering, GNDU RC Sathiala, Amritsar, India; Department of Electronics Technology, GNDU Amritsar, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041414975&doi=10.1109%2fICCNT.2017.8204055&partnerID=40&md5=a7afc581c5e1946197ead7ad31a7b469

1099	Analyzing the performance of WiMAX broadband wireless access system under Rayleigh fading conditions	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041389465&doi=10.1109%2fICCNCNT.2017.8203992&partnerID=40&md5=92fd4d03a64b5834dd876ce3c231433
1100	Ameliorative effect of 24-epibrassinolide on physiology of tomato plants infected with meloidogyne incognita (Kofoid and white, 1919) chitwood, 1949	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058675232&partnerID=40&md5=4047b07bebe91c065530c2318c0bff04
1101	Analysing change profiles of open source software projects using burst detection	Department of Computer Science and Engineering, Guru Nanak Dev University, Amritsar, Punjab, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040107745&doi=10.1049%2fiet-sen.2016.0130&partnerID=40&md5=c39d4283249dc11ad4be1bf409d17349
1102	Hybrid genetic variable neighborhood search based job scheduling with duplication for cloud data centers	Department of Computer Science and Applications, GNDU, Amritsar, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85036554009&partnerID=40&md5=1ead3e8b08fe59af043e6e7108eaa050
1103	Isolation and identification of compounds from the leaf extract of melaleuca alternifolia	Department of Pharmaceutical Sciences, IKG Punjab Technical University, Kapurthala, Punjab, India; Department of Pharmaceutical Sciences and Drug Research Punjabi University, Patiala, Punjab, India; Department of Pharmaceutical Analysis, Khalsa College of Pharmacy, Amritsar, Punjab, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040976300&doi=10.5530%2fpi.2017.6s.157&partnerID=40&md5=605a9602ac7089b7b05e0414bc0d4cc7
1104	Structural, optical and acetone gas sensing properties of WO3 and Gd3+ doped WO3 nanostructures	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85039922272&doi=10.1109%2fICmElec.2016.8074636&partnerID=40&md5=84ade5b488394d1122a8fbdab988d6b
1105	Improvement of subtropical plum through hybridization	Faculty of Agriculture, Global Institutes, Amritsar-Jammu Highway, NH-54, Amritsar, India; Faculty of Agriculture, Khalsa College, G. T. Road, Amritsar, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031717363&doi=10.17660%2fActaHortic.2017.1172.23&partnerID=40&md5=b9c23946730360af065ecf3364920dee
1106	Corrigendum to “Effect of H-bonding interactions of water molecules in the self assembly of supramolecular architecture- joint experimental and computational studies” [J. Mol. Struct. 1142 (2017) 148–155] (S0022286017304817) (10.1016/j.molstruc.2017.04.039))	Department of Chemistry, Indian Institute of Technology Delhi, New Delhi, India; Department of Nanotechnology, Sri Guru Granth Sahib World UniversityPunjab, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Chemistry, BUC College, Batala, India; Department of Chemistry, Hindu College, Amritsar, Punjab, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020934565&doi=10.1016%2fj.molstruc.2017.06.037&partnerID=40&md5=03b019f2bdfa92a4487032f2505a6a8a
1107	Analysis of filtering mechanism dealing multiple noises present in the limits of MRI images	Department of Computer Engg. and Technology, Guru Nanank Dev University, Amritsar, 143001, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85037081053&doi=10.1109%2fICISC.2017.8068612&partnerID=40&md5=a1f4a07cbac343f74df9db5aed4ca948
1108	Analyzing porphine based molecular junctions with Cu, Ag, Au electrodes	Guru Nanak Dev University, Amritsar, 143005, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041129505&doi=10.1166%2fjino.2017.2149&partnerID=40&md5=baa21d417e9700c17f18c832a08f9b24
1109	Molecular cloning and characterization of genes encoding FK506-binding proteins (FKBPs) in wheat (Triticum aestivum L.)	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Bioinformatics, Hans Raj Mahila Mahavidyalaya, Jalandhar, Punjab 143008, India; Stress Physiology and Molecular Biology Laboratory, School of Life Sciences, Jawaharlal Nehru University, New Delhi, 110067, India	6	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030150529&doi=10.1007%2fs13562-017-0408-8&partnerID=40&md5=b0977ce3a1738ecee3226991d09674e0
1110	Evaluation of Bacillus vallismortis (Bacillales: Bacillaceae) R2 as insecticidal agent against polyphagous pest Spodoptera litura (Lepidoptera: Noctuidae)	Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029950726&doi=10.1007%2fs13205-017-0987-z&partnerID=40&md5=d81aa83046ea568d58a21ca7e27320a9
1111	Sampling and approximation theorems for wavelets and frames on Vilenkin group	Sharda University, Greater Noida, India; Guru Nanak Dev University, Amritsar, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031687265&doi=10.1109%2fISAMPTA.2017.8024389&partnerID=40&md5=b55e5e9038b19dde87363d1de755a285
1112	Quantitative and qualitative analysis of eruca sativa and brassica juncea seeds by UPLC-DAD and UPLC-ESI-QTOF	Natural Product Chemistry and Process Development Division, CSIR-Institute of Himalayan Bioresource Technology, Palampur, Himachal Pradesh, 176061, India; Academy of Scientific and Innovative Research, CSIR-IHBT, Palampur, Himachal Pradesh, 176061, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	6	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030657191&doi=10.1177%2f1934578x1701200927&partnerID=40&md5=6b59068d6af17fe59c63b632bf1aad97

1113	Trend of use of different antimigraine medications and awareness of migraine, survey based study in Jalandhar	Department of School of Pharmaceutical Sciences, Lovely Professional University, Phagwara, Punjab 144411, India; Department of I. K. G Punjab Technical University, Kapurthala, Punjab, India; Department of Pharmaceutics, Lovely Institute of Technology (Pharmacy), Lovely Professional University, Phagwara, Punjab 144411, India; Department of Khalsa College of Pharmacy, Amritsar, Punjab 143001, India; Controller of Examinations, Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India; Department of Universiti Tunku Abdul Rahman, Kuala Lumpur, Malaysia	6	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029693715&doi=10.22159%2fajpcr.2017.v10s4.21333&partnerID=40&md5=3821ad1d7d53d76b165bd9b8c55ad1ab
1114	Electrical characterization of C28 fullerene junctions formed with group 1B metal electrodes	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85025458966&doi=10.1016%2fi.imgm.2017.07.018&partnerID=40&md5=3f3f4315ea56c4b04336149ebc13d173
1115	Semicontinuity of the metric projection and related maps	Department of Mathematics, Guru Nanak Dev University, Amritsar, India	2	2017	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031129277&partnerID=40&md5=16e9896beef3d39b81f9e2375ad88bb
1116	To envisage charge transport attributes of doped Porphine devices	Guru Nanak Dev University, Amritsar, 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029162657&doi=10.1088%2f2053-1591%2faa8045&partnerID=40&md5=e314609c44c391c0e9b23053f096a8e7
1117	Modeling Flour and Dough Quality of Indian Wheat Varieties	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84994631254&doi=10.1111%2ffjpp.13074&partnerID=40&md5=7cdb827ae74d01508ff376076676a59e
1118	Single electronics for biomedical applications	Guru Nanak Dev University, India	1	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029003049&doi=10.4018%2f978-1-5225-3158-6.ch061&partnerID=40&md5=0f1ebf1896481ea04b16640ded4420b3
1119	Ion-acoustic periodic waves in a nonthermal dusty plasma	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85025839540&doi=10.1063%2f1.4990322&partnerID=40&md5=9041773703351bc8ed4d606ff14de9b3
1120	Electrostatic envelope excitations in a nonextensive dusty plasma with two temperature ions	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85025835393&doi=10.1063%2f1.4990323&partnerID=40&md5=78769ff26896964b6bb4bb51e93977c8
1121	Evaluating the performance of density grid-based clustering using ABC technique for efficient routing in WSNs	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	1	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046300266&doi=10.1109%2fUEMCON.2017.8249057&partnerID=40&md5=e9dd003f2c07a43e9b3032a584eff6b2
1122	Re-joining of authorized nodes in MANETs using EGSR scheme and detection of internal attacks using 2ACK scheme	Department of CSE, GNDU, Amritsar, India	1	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046273095&doi=10.1109%2fUEMCON.2017.8249058&partnerID=40&md5=bbea2ef5b39d3acb59d6efdb28fa2909
1123	Cost-effective and fault-tolerant identity-based key management for configurable hierarchical cloud environments	Guru Nanak Dev University, Amritsar, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85024494267&doi=10.1016%2fS1361-3723%2817%2930061-1&partnerID=40&md5=f8a07b56c305b65cf0ae2e02fab9c8d5
1124	Charging and geometric effects on conduction through Anthracene molecular junctions	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070189078&doi=10.1142%2fS2047684117500130&partnerID=40&md5=b526bf923f3f12a9ca7896e1f4e96ba0
1125	On Slippery Ground: The British Position in Punjab in 1857	Department of History, Guru Nanak Dev University, Amritsar, Punjab, India	1	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85021731303&doi=10.1177%2f0376983617694718&partnerID=40&md5=f042923dfc63d74b4113f385a081b5b
1126	Antimycobacterial peptides	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85034400064&doi=10.1007%2f978-981-10-4284-3_15&partnerID=40&md5=31624ca539e66f18fb2761ee024d364c
1127	Modified EGSR for network security	Department of Computer Science and Engineering, Khalsa College of Engineering and Technology, Amritsar, Punjab, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020215071&doi=10.1109%2fCISS.2017.7926098&partnerID=40&md5=2e5a7b7355fd60eb590862a2c7068358
1128	Examining SEBI's Edict: Mandatory to Voluntary IPO Grading	Research Scholar, Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85107044284&doi=10.1177%2f0258042X17707657&partnerID=40&md5=415fef0ac6e8834135a9744c2c47998

1129	Pre and Post Disinvestment Performance Evaluation of Indian CPSEs	Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85107037158&doi=10.1177%2f0258042X17716601&partnerID=40&md5=e404275f6d8e9ddcfb0ae1e03be03f43
1130	Designing nano molecular sensor towards envisaging insufficiency of oxygen	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143001, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026257440&doi=10.1166%2fictn.2017.6824&partnerID=40&md5=32c12c2ec32bea5c1bde33385eada4c6
1131	Drug loaded silica coated MnFe2O4 ferromagnetic biomaterials for targeted cancer treatment	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019251269&doi=10.1063%2f1.4982093&partnerID=40&md5=0fa6fcdb99f123f2fc9ac04e704d24bc
1132	1, 6-diisocyanatohexane-extended poly (1, 4-butylene succinate / hydroxyl apatite nano particle scaffolds: Potential materials for bone regeneration applications	Department of Physics, Guru Nanak Dev University, Amritsar, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India	7	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019184820&doi=10.1063%2f1.4982094&partnerID=40&md5=628c7f44382175cb9017c469082b444f
1133	Improving the QoS of a composite web service by pruning its weak partners	Department of Computer Science, Guru Nanak Dev University, Amritsar, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054771753&doi=10.1007%2f978-3-319-51310-2_12&partnerID=40&md5=6fa9d22993507e3bfd4ab750a6c545d1
1134	Natural Neuroprotectives for the Management of Parkinson's Disease	Jamia Hamdard, Department of Pharmaceutics, Hamdard Nagar, New Delhi, 110062, India; International Medical University (IMU), School of Pharmacy, Department of Pharmaceutical Technology, Kuala Lumpur, 57000, Malaysia; Khalsa College of Pharmacy, Department of Pharmaceutics, Amritsar, India	6	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046832884&doi=10.1002%2f9783527803781.ch4&partnerID=40&md5=566a8380f54943d4d34d2db359fd6e0c
1135	Sources for investigating the development of bibliographical classification	Department of Library and Information Science, Guru Nanak Dev University, Amritsar, India	1	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071261976&partnerID=40&md5=657546fc27fedf3a56cdaddeec875c5
1136	Meta Analysis for Impact Assessment of Chenani Watershed Development Programme of J&K (India)	Faculty of Agriculture, Khalsa College, Amritsar, 143002, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85024928527&partnerID=40&md5=6784a25ca9e6ca7880cc33056bec2b16
1137	Fuzzy based map reduce technique for energy efficiency in multi core cloud computing	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015814699&doi=10.1109%2fHNGIS.2016.7854079&partnerID=40&md5=a90388d5e9efd1f62e5a8a546ec3b4ea
1138	Foreword	Guru Nanak Dev University, India	1	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052721544&doi=10.4018%2f978-1-5225-2053-5&partnerID=40&md5=f1d08d152b68fab784870115ddabae7
1139	An efficient design of a DC-Block band pass filter for the L-band	Department of Electronics and Communication Engineering, Guru Nanak Dev University-Regional Campus, Jalandhar, 144009, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018297228&doi=10.4313%2fTEEM.2017.18.2.62&partnerID=40&md5=254c433099fd3c1a530fa490f64ffda1
1140	A new approach to design user-driven security pricing model in cloud computing	Punjab Institute of Technology Kapurthala, PTU Main Campus, Kapurthala, India; Guru Nanak Dev University, Regional Campus, Gurdaspur, India	4	2017	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85011030537&doi=10.1109%2fCCAA.2016.7813822&partnerID=40&md5=d8360104afd186f50f582a65c942767d
1141	A weight-based approach for node failure detection and recovery in mobile cloud computing	Dept. of Computer Science and Engineering, Guru Nanak Dev University, Amritsar, 143005, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015097589&doi=10.1109%2fRTEICT.2016.7807804&partnerID=40&md5=49d74ae49010785cec136982e7c17c3d
1142	Web cultural mining and enhancing user access on web using culture	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015056833&doi=10.1109%2fRTEICT.2016.7807880&partnerID=40&md5=7d0qd559a1f6262a0d7d4ff5b4f6e6c4
1143	Optimizing Job Scheduling in Federated Grid System	Department of Computer Engineering, Guru Nanak Dev University, Amritsar, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85106770859&doi=10.1007%2f978-981-10-3818-1_11&partnerID=40&md5=119b15b60f474795a6f107668981e6f5
1144	Changing Trends in the Methodologies of Extraction and Analysis of Hydrolytic Products of Glucosinolates: A Review	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	3	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85101157240&doi=10.1007%2f978-3-319-25462-3_13&partnerID=40&md5=da148d3fd686797ec05e428ed801e96f
1145	New records of resupinate, non-poroid agaricomycetous fungi from India	Department of Agriculture, Khalsa College, Amritsar, Punjab, 143002, India; Department of Botany, Punjabi University, Patiala, Punjab, 147002, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084450735&doi=10.33585%2fcmv.69207&partnerID=40&md5=ca0ceff4d5852d770123c46d5f7005ff

1146	Slums and planning in urban India: A case study of amritsar city	Department of Sociology, Guru Nanak Dev University, B-31, Ranjit Avenue, Amritsar, 143002, India; Hume City Council, Melbourne, VIC, Australia	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076117363&doi=10.1007%2f978-81-322-3741-9_10&partnerID=40&md5=99084348b2b1f65344bda87e7e5a7769
1147	Large amplitude kinetic alfvén excitations in non-Maxwellian plasmas	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Centre for Plasma Physics, Queen's University BelfastBT7 1NN, United Kingdom	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055042519&partnerID=40&md5=8b5deca5fda66b9e87ddd1e46c8d11b4
1148	An empirical study of usability metric for websites	Punjab Technical University, India; Guru Nanak Dev University, India	4	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052474094&doi=10.4018%2f978-1-5225-3422-8.ch048&partnerID=40&md5=f0e26e0a9d7fa03887c0e5af4363fa7a
1149	Strong proximality in metric spaces	Department of Mathematics, Guru Nanak Dev University, Amritsar, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049159751&doi=10.30755%2fNSIJOM.05733&partnerID=40&md5=c8f8f2fe151d82a147118f92955dcb51
1150	Brassinosteroids crosstalk with other hormones in plants under abiotic stresses	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	8	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048684723&partnerID=40&md5=4c5547cdf9290cb72caec097f20113ac
1151	Multigene engineering strategies for crop improvement	Department of Botanical and Environment Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department Molecular Mechanisms of Cell Metabolism Regulation, Institute of Bioorganic Chemistry and Petrochemistry, NAS of Ukraine, Kyiv, Ukraine	10	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048683020&partnerID=40&md5=9bd67e753af56f53c4be5713b39a9d5a
1152	Oxylipins signalling in plants under abiotic stress	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India	8	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048678695&partnerID=40&md5=61e7eeaf6a3f4e90df383b2b54ffcde9
1153	Brassinosteroids signalling during abiotic stress tolerance	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India	8	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048671008&partnerID=40&md5=bebfc58b76336948b4406df8d1c01781
1154	Interactions of plant hormones under abiotic stress	Department of Botanical and Environment Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India	11	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048658789&partnerID=40&md5=ad989da0e924af8affef674028912db2
1155	Measures of entropy based upon statistical constants	Department of Mathematics, Khalsa College, Amritsar, India	1	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041196725&partnerID=40&md5=bee52d8c5b316483ae1efa80edd2f6c1
1156	Identification and removal of constraints of sustainability in wheat crop	Guru Nanak Dev University College, Chungh Tarntaran (Punjab), India; Khalsa College Amritsar, Punjab, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040169900&partnerID=40&md5=d70fca39064a4e07545c7583c8dd4c6e
1157	New product announcements effect on stock prices in India	University Business School, Guru Nanak Dev University, Amritsar, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85035747236&doi=10.1108%2fJABS-08-2015-0145&partnerID=40&md5=1cf46bc09b87c04cf6eab75ac6bca4e7
1158	Structural and Optical Properties of Se85-xSb10In5Agx System	Semiconductors Laboratory, Department of Physics, GND University, Amritsar, India; Department of Physics, DAV University, Sarmastpur, Jalandhar, 144012, India	5	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032033127&doi=10.1016%2fj.matpr.2017.06.397&partnerID=40&md5=b2e88a5205833ae375792b2772d07d1e
1159	Social media trends and prediction of subjective well-being: A literature review	Department of Computer Science & Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab 144007, India	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020380389&doi=10.1007%2f978-981-10-3770-2_70&partnerID=40&md5=a46440745845a0009f67d088baed2322
1160	Multivariate analysis of antioxidant enzymes and pigments in the leaves of plants in vicinity of river Beas, India	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143 005, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020190875&partnerID=40&md5=8f7e3c8e7f9ea802ac4c790cedf05540
1161	Estimating the income tax responsiveness in India: A post liberalization era analysis	Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019555939&partnerID=40&md5=9dc0197c728c4bde8e80ca9dc0a91c3b
1162	In vitro cytotoxicity evaluation of stem bark and leaves of Anogeissus pendula: Lack of potent activity	Department of Pharmacy, Banasthali University, P.O. Banasthali University, Banasthali, Rajasthan, Tonk, India; Department of Pharmacology, Khalsa College of Pharmacy, Amritsar, Punjab, India; Department of Pharmaceutical Chemistry and Analysis, Khalsa College of Pharmacy, Amritsar, Punjab, India	3	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018379535&doi=10.4103%2f0976-9234.204915&partnerID=40&md5=c5957284cae370ea537c5f2c86945084
1163	SQLi attacks: Current state and mitigation in SDLC	Lyallpur Khalsa College, Jalandhar, India; Guru Nanak Dev University, Amritsar, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015901611&doi=10.1007%2f978-981-10-3153-3_67&partnerID=40&md5=c51627e49328cc1b214a83c29380c3cf

1164	Feature optimality-based semi-supervised face recognition approach	Computer Engineering Department, Guru Nanak Dev University Regional Campus, Gurdaspur, India; Computer Engineering Department, National Institute of Technology (NIT), Jalandhar, India	2	2017	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015901393&doi=10.1007%2f978-981-10-3153-3_6&partnerID=40&md5=c6e5204884afb3be0fa890db14e748bf
1165	Deposition of alumina films by inverted cylindrical magnetron sputtering assisted by optical emission spectroscopy	Department of Physics, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Mechanical Engineering, University of ArkansasAR 72701, United States	2	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-8501208583&partnerID=40&md5=76f2ccc70c4f4112e3ba4e950b8bb5fd
1166	Correlation of microscopic interaction with electrical conductivity in polymer separator of energy storage devices	Centre for Physical Sciences, Central University of Punjab, Bathinda, 151001, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Physics, IIT BHU, Varanasi, India	4	2017	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84994520383&doi=10.1007%2f978-3-319-29096-6_52&partnerID=40&md5=4017d457207510a2bf997d78c80021cf
1167	workshop on "Big Data"	Solitaire Infosys Pvt. Ltd. Mohali	102	2017	October 31st , 2017	Collaboration	Not Available
1168	Training programme on "Green Sense : Framework for Sustainable Development"	Centre for Science and Environment, New Delhi	98	2017	10-11 August, 2017	Collaboration	Not Available
1169	Interactive Academia-Industry Training Session of Autocad Map 3D software	District Town Planner	69	2017	1-3 March, 2017.	Collaboration	Not Available
1170	Fortis Escort Hospital, Amritsar	Fortis Escort Hospital, Amritsar	29	2018	13-01-18	Academic collaboration, collaborative research	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1171	OCM, Amritsar	OCM, Amritsar	38	2018	01-02-18	Academic collaboration, collaborative research	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1172	Ranjit Hospital, Putlighar, Amritsar	Ranjit Hospital, Putlighar, Amritsar	24	2018	06-02-18	Academic collaboration, collaborative research	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1173	Prakash Hospital , Amritsar	Prakash Hospital , Amritsar	26	2018	06-02-18	Academic collaboration, collaborative research	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1174	Amandeep Hospital, Amritsar	Amandeep Hospital, Amritsar	31	2018	06-02-18	Academic collaboration, collaborative research	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1175	Meritorious School, Amritsar	Meritorious School, Amritsar	39	2018	08-02-18	Academic collaboration	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1176	Ranjit Vilas, Amritsar	Ranjit Vilas, Amritsar	35	2018	27-03-18	Academic collaboration	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1177	PHD Chamber of Commerce & Industry, New Delhi	PHD Chamber of Commerce & Industry, New Delhi	31	2018	06-04-18	Academic collaboration, seminars, conferences	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1178	Punjab Police	Punjab Police	42	2018	30-04-18	Academic collaboration	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1179	Punjab Heritage & Tourism Promotion Board	Punjab Heritage & Tourism Promotion Board	36	2018	01-05-18	Academic collaboration, collaborative research	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1180	Punjab Remote Sensing Centre, Ludhiana	Punjab Remote Sensing Centre, Ludhiana	27	2018	03-05-18	Academic collaboration	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1181	Blessing Group (Radisson Blue Hotel and Park Inn by Radisson), Amritsar	Blessing Group (Radisson Blue Hotel and Park Inn by Radisson), Amritsar	24	2018	03-08-18	Academic collaboration	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1182	CSIR-National Botanical Research Institute, Lucknow	CSIR-National Botanical Research Institute, Lucknow	37	2018	16-08-18	Faculty and students exchange programs, research and development participation	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1183	The Brew Master, Amritsar	The BrewMaster, Amritsar	34	2018	04-09-18	Academic collaboration	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1184	JAMK University of Applied Sciences, Finland	JAMK University of Applied Sciences, Finland	31	2018	03-10-18	Faculty and students exchange programs, research and development participation	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1185	Ministry of Environment, Forest & Climate Change CS-Division	Ministry of Environment, Forest & Climate Change CS-Division	27	2018	16-10-18	Academic collaboration	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1186	INTERNSHALA, Gurugram	INTERNSHALA, Gurugram	33	2018	17-10-18	Academic collaboration, Student training programs	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1187	Majha House, Amritsar	Majha House, Amritsar	36	2018	30-10-18	Academic collaboration	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing

1188	Hotel Holiday Inn, Amritsar	Hotel Holiday Inn, Amritsar	29	2018	14-12-18	Academic collaboration	https://drive.google.com/file/d/1s6YdJ1H5rtKvvpP5IUVRFok-AAUk157K/view?usp=sharing
1189	National Institute of Advanced Industrial Science and Technology, Japan	National Institute of Advanced Industrial Science and Technology, Japan	20	2018	22-03-2018	Academic Cooperation	https://drive.google.com/file/d/1s6YdJ1H5rtKvvpP5IUVRFok-AAUk157K/view?usp=sharing
1190	Sadar Jaswant Singh Rai Memorial Trust, Jalandhar	Sadar Jaswant Singh Rai Memorial Trust, Jalandhar	18	2018	02-12-2018	Bishan Singh Samundri Memorial Lecturership Award in Agriculture and Allied Sciences	https://drive.google.com/file/d/1s6YdJ1H5rtKvvpP5IUVRFok-AAUk157K/view?usp=sharing
1191	National Institute of Urban Affairs	National Institute of Urban Affairs	34	2018	10-01-2018	Academia Engaemnet on Decentralized Sanitation Under SCBP at NIUA, New Delhi	https://drive.google.com/file/d/1s6YdJ1H5rtKvvpP5IUVRFok-AAUk157K/view?usp=sharing
1192	Colorimetric metal ion sensors – A comprehensive review of the years 2011–2016	Panjab University, Chandigarh, Punjab, India; Guru Nanak Dev UniversityPunjab, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85038607044&doi=10.1016%2fj.ccr.2017.12.002&partnerID=40&md5=c1e6d10560931a50e68fdaa2e74a47d6
1193	Fog assisted-IoT enabled patient health monitoring in smart homes	Department of Computer Science and Engineering, Guru Nanak Dev University, Punjab, 143521, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041554661&doi=10.1109%2fjiOT.2018.2803201&partnerID=40&md5=52476faf24fef3df260a8200d59db012
1194	Phenolic compounds as beneficial phytochemicals in pomegranate (Punica granatum L.) peel: A review	P.G. Department of Biotechnology, Khalsa College, Amritsar, Punjab 143002, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; P.G. Department of Botany, Dev Samaj College for Women, Ferozepur City, Punjab 152002, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045553144&doi=10.1016%2fj.foodchem.2018.04.039&partnerID=40&md5=1b4dc9f79db8eac64df5471520d50491
1195	Endothelial dysfunction and platelet hyperactivity in type 2 diabetes mellitus: Molecular insights and therapeutic strategies	Guru Nanak Dev University, Department of Molecular Biology and Biochemistry, Amritsar, Punjab, India; Guru Nanak Dev University, Department of Human Genetics, Amritsar, Punjab, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052635784&doi=10.1186%2fs12933-018-0763-3&partnerID=40&md5=ba8ed5a457811bed4114e5a175e7a873
1196	Role of 24-epibrassinolide (EBL) in mediating heavy metal and pesticide induced oxidative stress in plants: A review	School of Land and Food, University of Tasmania, Hobart, Tasmania, Australia; School of Agronomy, Anhui Agricultural University, Hefei, 230036, China; Department of Agronomy, University of Agriculture Faisalabad, Pakistan; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; National Maize Key Laboratory, Department of Crop Biotechnology, School of Life Sciences, Hefei, 230036, China	9	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030320048&doi=10.1016%2fj.ecoenv.2017.09.066&partnerID=40&md5=2488f82fb2fb5f0278ab0eef417368e2
1197	A cybersecurity framework to identify malicious edge device in fog computing and cloud-of-things environments	Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India; Department of Computer Science and Engineering, Chitkara University Institute of Engineering and Technology, Chitkara UniversityPunjab, India; IBSS, Xi'an Jiaotong-Liverpool University, Suzhou, China	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029784320&doi=10.1016%2fj.cose.2017.08.016&partnerID=40&md5=3dc65fbc3357b590304d81cc5b9de88c
1198	Selenium mitigates cadmium-induced oxidative stress in tomato (Solanum lycopersicum L.) plants by modulating chlorophyll fluorescence, osmolyte accumulation, and antioxidant system	Botany and Microbiology Department, College of Science, King Saud University, P. O. Box. 2460, Riyadh, 11451, Saudi Arabia; School of Studies in Botany Jiwaji University, Gwalior, MP 474011, India; Biology Department, College of Science and Humanities, Prince Sattam bin Abdulaziz University (PSAU), Alkharj, Saudi Arabia; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Botany, S.P. College, Srinagar, Jammu and Kashmir 190001, India	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029147169&doi=10.1007%2fs00709-017-1162-4&partnerID=40&md5=b01e36c724399c8b84f97d7728b95207
1199	Bioremediation and detoxification of industrial wastes by earthworms: Vermicompost as powerful crop nutrient in sustainable agriculture	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; P.G. Department of Zoology, Khalsa College, Amritsar, 143001, India; Solid and Hazardous Waste Management Division, National Environmental Engineering Research Institute (CSIR-NEERI), Nagpur, 440020, India	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042086441&doi=10.1016%2fj.biortech.2018.01.003&partnerID=40&md5=8952d4a1f799887d55720a3d9584bdc2

1200	Nickel; whether toxic or essential for plants and environment - A review	School of Land and Food, University of Tasmania, Hobart, TAS, Australia; Department of Agronomy, University of Agriculture, Faisalabad, Pakistan; College of Plant Science and Technology, Huazhong Agricultural University, Hubei, China; National Maize Key Laboratory, Department of Crop Biotechnology, School of Life Sciences, Anhui Agricultural University, Hefei, 230036, China; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	7	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054849226&doi=10.1016%2fj.plaphy.2018.10.014&partnerID=40&md5=a80a7c9845760d7c1a83047d042c31e4
1201	Heavy metal contamination in soil, food crops and associated health risks for residents of Ropar wetland, Punjab, India and its environs	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041897904&doi=10.1016%2fj.foodchem.2018.02.037&partnerID=40&md5=b33cce8530c452a5d30156148f6082f0
1202	Cloud-centric IoT based disease diagnosis healthcare framework	Department of Computer Science and Engineering, GNDU, Regional Campus, Gurdaspur (Punjab), India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85039726533&doi=10.1016%2fj.ipdc.2017.11.018&partnerID=40&md5=3c676c228e17dff84bbe7eb4ff602eb6
1203	Cobalt substituted nickel ferrites via Pechini's sol-gel citrate route: X-band electromagnetic characterization	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India; Solid State Physics Division, Bhabha Atomic Research Centre, Trombay, Mumbai, 400085, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050133912&doi=10.1016%2fj.immm.2018.07.038&partnerID=40&md5=3bf7966a40102a3b4dc49a2938181b5
1204	Bioactivities of phytochemicals present in tomato	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; P.G. Department of Biotechnology, Khalsa College, Amritsar, Punjab 143002, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047908516&doi=10.1007%2fs13197-018-3221-z&partnerID=40&md5=e7ec93196c2c91198d11927e151e7571
1205	Combined effect of 24-epibrassinolide and salicylic acid mitigates lead (Pb) toxicity by modulating various metabolites in Brassica juncea L. seedlings	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Botany, DAV University, Sarmastpur, Jalandhar, 144012, India; Department of Botany and Microbiology, Faculty of Science, King Saud University, Riyadh, 11451, Saudi Arabia; Department of Botany, S.P. College, Srinagar, Jammu and Kashmir 190001, India	9	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020136317&doi=10.1007%2fs00709-017-1124-x&partnerID=40&md5=abf3ff59fa508190b33338d173fe8848
1206	Control of insect pests in crop plants and stored food grains using plant saponins: A review	Post Graduate Department of Biotechnology, Khalsa College AmritsarPunjab 143002, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028712460&doi=10.1016%2fj.lwt.2017.08.077&partnerID=40&md5=6107ea4156f2b229823a6428c504b7be
1207	A Fog-Based Healthcare Framework for Chikungunya	Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus, Gurdaspur, 143521, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85033380733&doi=10.1109%2fIIOT.2017.2768407&partnerID=40&md5=267a3954ded3d14b489f83637640b641
1208	28-homobrassinolide regulates antioxidant enzyme activities and gene expression in response to salt- and temperature-induced oxidative stress in Brassica juncea	Department of Botany, Punjabi University, Patiala, Punjab, 147002, India; Department of Botanical and Environmental Sciences, GNDU, Amritsar, Punjab, India; Department of Botany and Microbiology, Faculty of Science, King Saud University, Riyadh, 11451, Saudi Arabia; UWA Institute of Agriculture and UWA School of Agriculture and Environment, University of Western Australia, LB 5005, Perth, WA 6001, Australia; Department of Botany, S.P. College, Srinagar, Jammu and Kashmir, 190001, India	6	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048211966&doi=10.1038%2fs41598-018-27032-w&partnerID=40&md5=131734e784e2081b4a411bc1785588b
1209	Sensitive and selective acetone sensor based on Gd doped WO3/reduced graphene oxide nanocomposite	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2018	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85037360693&doi=10.1016%2fj.snb.2017.11.159&partnerID=40&md5=562b64ccae5a6730c5550d05b4028746
1210	Exogenous application of calcium to 24-epibrassinosteroid pre-treated tomato seedlings mitigates NaCl toxicity by modifying ascorbate-glutathione cycle and secondary metabolites	Botany and Microbiology Department, College of Science, King Saud University, P.O. Box 2460, Riyadh, 11451, Saudi Arabia; Department of Botany, S.P. College, Srinagar, Jammu and Kashmir 190001, India; Plant Production Department, College of Food and Agricultural Sciences, King Saud University, Riyadh, Saudi Arabia; Biology Department, College of Science and Humanities, Prince Sattam bin Abdulaziz University, Alkharij, 11942, Saudi Arabia; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; The UWA Institute of Agriculture and School of Agriculture & Environment, The University of Western Australia, LB 5005, Perth, WA 6001, Australia	7	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053205650&doi=10.1038%2fs41598-018-31917-1&partnerID=40&md5=4b6f4a553ba216bb8f2c5ba54c9e64f8

1211	Cloud-centric IoT based student healthcare monitoring framework	Guru Nanak Dev University, Amritsar, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85043687152&doi=10.1007%2fs12652-017-0520-6&partnerID=40&md5=e5a6e756d2cd5e1eff947fb759c575f9
1212	Interaction of 24-epibrassinolide and salicylic acid regulates pigment contents, antioxidative defense responses, and gene expression in Brassica juncea L. seedlings under Pb stress	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Botany, DAV University, Sarmastpur, Jalandhar, 144012, India; Department of Botany and Microbiology, Faculty of Science, King Saud University, Riyadh, 11451, Saudi Arabia; Department of Botany, S.P. College, Srinagar, Jammu and Kashmir, 190001, India	9	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046020741&doi=10.1007%2fs11356-018-1742-7&partnerID=40&md5=7d4bc2180a48574e381f7b7ae40705b7
1213	Effect of guar gum conjugation on functional, antioxidant and antimicrobial activity of egg white lysozyme	Department of Food Science & Technology, University of Kashmir, Srinagar, 190 006, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027851467&doi=10.1016%2fj.foodchem.2017.08.060&partnerID=40&md5=e3afaac8da622b1b24833282717ecc9c
1214	24-Epibrassinolide; an active brassinolide and its role in salt stress tolerance in plants: A review	School of Land and Food, University of Tasmania Hobart 2007Tasmania, Australia; Faculty of Veterinary and Agricultural Sciences, The University of Melbourne, Victoria, 3010, Australia; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049353263&doi=10.1016%2fj.plaphy.2018.06.035&partnerID=40&md5=e70f10e6a39f4ae59bb5ff4e668a825b
1215	Enhancing solubility of poorly aqueous soluble drugs: critical appraisal of techniques	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, Punjab 147002, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052249046&doi=10.1007%2fs40005-017-0357-1&partnerID=40&md5=8763ca31f596d7d419e4c3089d42713c
1216	Earthworms as Organic Waste Managers and Biofertilizer Producers	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; P.G. Department of Zoology, Khalsa College, Amritsar, Punjab, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015717261&doi=10.1007%2fs12649-017-9899-8&partnerID=40&md5=d7728a342b369da0f4b00ad262c6be9f
1217	Anti-biofilm properties of the fecal probiotic Lactobacilli against Vibrio spp	Department of Microbiology, Guru Nanak Dev University, Amritsar, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046872818&doi=10.3389%2ffccimb.2018.00120&partnerID=40&md5=36ff923647a8395014f0534e38fa4d93
1218	Polyphenols in food: Cancer prevention and apoptosis induction	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85033573017&doi=10.2174%2f0929867324666171006144208&partnerID=40&md5=e9769975d590995704f1d85652e4ecfc
1219	Fog-cloud based cyber-physical system for distinguishing, detecting and preventing mosquito borne diseases	Department of Computer Science and Engineering, GNDU, Regional Campus, Gurdaspur, Punjab, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041015828&doi=10.1016%2fj.future.2018.01.008&partnerID=40&md5=cf24066e70d79feadbcc3beb2cf61f37
1220	Brassinosteroid-mediated pesticide detoxification in plants: A mini-review	Plant Stress Physiology Lab, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Botany, DAV University, Jalandhar, Punjab 144012, India; School of Land and Food, University of Tasmania, Hobart, TAS, Australia	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054842061&doi=10.1080%2f23311932.2018.1436212&partnerID=40&md5=91bb26491c15d1fcbec3a89305d1a6f2
1221	Medicinal chemistry of acridine and its analogues	UGC Sponsored Centre for Advanced Studies, Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, University of Petroleum and Energy Studies, Dehradun, 248007, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053359700&doi=10.1039%2fC8MD00384J&partnerID=40&md5=09a0212bd0366b05637b13d4d48cdb7e
1222	IoT, big data and HPC based smart flood management framework	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus GurdaspurPunjab, India; School of Computing and Information Systems, University of Melbourne, Melbourne, Australia; International Business School Suzhou, Xi'an Jiaotong-Liverpool University, Suzhou, China	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85039783105&doi=10.1016%2fj.suscom.2017.12.001&partnerID=40&md5=de0463f9a93cc21ae9f6963c1ea5c187
1223	Electrocoagulation technology for high strength arsenic wastewater: Process optimization and mechanistic study	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, India; Centre of Excellence, Agilent Technologies India. Pvt. Ltd., Bangalore, India	7	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053081892&doi=10.1016%2fj.iclpro.2018.07.023&partnerID=40&md5=63d7d9eb529fa5969887a17a75b669ff
1224	Self-assembled small molecule based fluorescent detection of serum albumin proteins: Clinical detection and cell imaging	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Chemical Sciences, IK Gujral Punjab Technical University, Kapurthala, 144601, India	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027863649&doi=10.1016%2fj.snb.2017.08.072&partnerID=40&md5=cfbf1028d36f8822d54a8aac117042ea

1225	Sentiment analysis of demonetization of 500 & 1000 rupee banknotes by Indian government	Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044126388&doi=10.1016%2fj.ict.2017.03.001&partnerID=40&md5=cf6cf6fee86bc0ef207c079b8f452bc1
1226	Surface modification of metallic biomaterials for enhanced functionality: a review	Department of Mechanical Engineering, IKGPTU, Kapurthala, India; Department of Mechanical Engineering, Khalsa College of Engineering & Technology, Amritsar, India; Department of Mechanical Engineering, Beant College of Engineering & Technology, Gurdaspur, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029721400&doi=10.1080%2f10667857.2017.1377971&partnerID=40&md5=aebffe6c0cd935ee0323008468a5f895
1227	Menstrual Hygiene, Management, and Waste Disposal: Practices and Challenges Faced by Girls/Women of Developing Countries	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Govt. Polytechnic College for Girls, Amritsar, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85043369599&doi=10.1155%2f2018%2f1730964&partnerID=40&md5=3dbdb38d496021aace2c481dc2abbecd
1228	Modulation of antioxidative defense expression and osmolyte content by co-application of 24-epibrassinolide and salicylic acid in Pb exposed Indian mustard plants	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Botany, DAV University, Sarmastpur, Jalandhar, 144012, India	7	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028715856&doi=10.1016%2fj.ecoenv.2017.08.051&partnerID=40&md5=919ebfd1ff0896246d4e11ccb69d81ee
1229	Assessment of genotoxic effects of pesticide and vermicompost treated soil with Allium cepa test	School of Biotechnology and Biosciences, Lovely Professional University, Phagwara, 144402, India; Department of Zoology, Khalsa College, Amritsar, 143002, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India	5	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046036211&doi=10.1016%2fj.serj.2018.01.005&partnerID=40&md5=38cab050b7cc859108323702d5c11222
1230	IoT-based cloud framework to control Ebola virus outbreak	Computer Section, Guru Nanak Dev University, Amritsar, Punjab, India; I. K. Gujral Punjab Technical University, Kapurthala, Punjab, India; Computer Science and Engineering Department, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India; Computer Science and Engineering Department, Beant College of Engineering and Technology, Gurdaspur, Punjab, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048275249&doi=10.1007%2fs12652-016-0427-7&partnerID=40&md5=4c53700dce6227203119e4702cccbb86
1231	L-Theanine: An astounding sui generis integrant in tea	CSIR-Institute of Himalayan Bioresource Technology, Palampur, Himachal Pradesh, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030722116&doi=10.1016%2fj.foodchem.2017.09.046&partnerID=40&md5=870e985b6e51cc462e5fbed95bc4d7d7
1232	Catalytic synthesis of 3-aminooxindoles: Via addition to isatin imine: An update	Department of Chemistry, U.G.C. Centre of Advance Study-II, Guru Nanak Dev University, Amritsar Punjab, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046888791&doi=10.1039%2fc7ob03002a&partnerID=40&md5=d9417a8acf58dc15b3baed779e70a7be
1233	Low-grade neuroinflammation due to chronic sleep deprivation results in anxiety and learning and memory impairments	Medical Biotechnology Laboratory, Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044079754&doi=10.1007%2fs11010-018-3343-7&partnerID=40&md5=223e2e9e1815e04488df6e9680d461e0
1234	A Mechanistic Study to Determine the Structural Similarities Between Artificial Membrane Strat-M™ and Biological Membranes and Its Application to Carry Out Skin Permeation Study of Amphotericin B Nanoformulations	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Microbiology, Government Medical College, Amritsar, 143001, India; Department of Pathology, Government Medical College, Amritsar, 143001, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Indian Institute of Integrative Medicine, Jammu, 180001, India	6	2018	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042624244&doi=10.1208%2fs12249-018-0959-6&partnerID=40&md5=308a1f26c197dcb047c9d493baa1c57a
1235	Pluronic-SAILS (surface active ionic liquids) mixed micelles as efficient hydrophobic quercetin drug carriers	Department of Chemistry, UGC-centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85033457367&doi=10.1016%2fj.molliq.2017.11.044&partnerID=40&md5=41ff07c898251f2dc1abd23786fa2a6f
1236	Pharmacotherapeutic potential of phytochemicals: Implications in cancer chemoprevention and future perspectives	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botany, Eternal University, Baru Sahib, Sirmour, Himachal Pradesh 173101, India; Genome Health and Personalised Nutrition, Commonwealth Scientific and Industrial Research Organization (CSIRO), Health and Biosecurity, Gate 13, Kintore Avenue, Adelaide, 5000, Australia	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032808872&doi=10.1016%2fj.biopha.2017.10.124&partnerID=40&md5=76742b99529fa7e51f500fc1bf57722b
1237	Modification of starch using low pressure radio frequency air plasma	Department of Food Engineering & Technology, Institute of Chemical Technology, Mumbai, 400019, India; Department of Physics, Institute of Chemical Technology, Mumbai, 400019, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85037034339&doi=10.1016%2fj.lwt.2017.11.056&partnerID=40&md5=095d37f9cc115e46d47803ff579438f9

1238	Bioleaching of Gold and Silver from Waste Printed Circuit Boards by <i>Pseudomonas balearica</i> SAE1 Isolated from an e-Waste Recycling Facility	Department of Biotechnology and Bioinformatics, Jaypee University of Information Technology, Waknaghat, Solan, Himachal Pradesh 173234, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031403221&doi=10.1007%2fs00284-017-1365-0&partnerID=40&md5=56547b210f29b90aa49badecac7dd5ba
1239	AIEE Active Donor-Acceptor-Donor-Based Hexaphenylbenzene Probe for Recognition of Aliphatic and Aromatic Amines	Department of Chemistry, UGC Sponsored Centre for Advanced Studies, II Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045612860&doi=10.1021%2facami.7b09791&partnerID=40&md5=96faa6337e46cdc99ee7778930ae9694
1240	Protective role of selenium against chromium stress involving metabolites and essential elements in <i>Brassica juncea</i> L. seedlings	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botany and Microbiology, Faculty of Science, King Saud University, Riyadh, 11451, Saudi Arabia; Department of Botany, S.P. College, Srinagar, Jammu and Kashmir 190001, India	7	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040658236&doi=10.1007%2fs13205-018-1087-4&partnerID=40&md5=c3de2a84d73298ea0cf62d3118b1e11b
1241	Temporal distribution, source apportionment, and pollution assessment of metals in the sediments of Beas river, India	Department of Botanical & Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Botany, DAV University, Sarmastpur, Jalandhar, Punjab, India; Punjab Remote Sensing Centre, Ludhiana, Punjab, India	5	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042937833&doi=10.1080%2f10807039.2018.1440529&partnerID=40&md5=d4b3cae3dbd5ef1248808860d56bf88e
1242	Effect of heat-treatment on the magnetic and optical properties of Sr _{0.7} Al _{0.3} Fe _{11.4} Mn _{0.6} O ₁₉	Department of Physics, School of Chemical Engineering and Physical Sciences, Lovely Professional University, Phagwara, Punjab, 144411, India; Department of Physics, Faculty of Science, Federal University Dutse, P.M.B. 7156, Jigawa state Dutse, Nigeria; SRM Research Institute, SRM University, Kattankulathur, Chennai, 603203, India; Analytic Division and Centralised Instrument Facility, CSIR-Central Salt and Marine Chemicals Research Institute, Gijubhai Badheka Marg, Bhavnagar, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	8	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050965117&doi=10.1088%2f2053-1591%2faad1e5&partnerID=40&md5=7660d66d84a6ff1a792b58d540789e9c
1243	Controllable supramolecular self-assemblies (rods-wires-spheres) and ICT/PET based perylene probes for palladium detection in solution and the solid state	Department of Chemistry, UGC Centre for Advanced Studies, Guru Nanak Dev University, Amritsar Punjab, 143 005, India; Department of Chemical Sciences, IKG Punjab Technical University, Kapurthala-Punjab, 144601, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040866889&doi=10.1039%2fc7nj03751a&partnerID=40&md5=0976cb30938c7c37de6aa40ef98440ea
1244	Comparative analysis of tissue compartmentalized heavy metal uptake by common forage crop: A field experiment	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India; Department of Zoology, Khalsa College Amritsar Punjab, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030150523&doi=10.1016%2fj.catena.2017.09.015&partnerID=40&md5=0b9535f251a946ee6daeeb6c65d2773f
1245	Castasterone confers copper stress tolerance by regulating antioxidant enzyme responses, antioxidants, and amino acid balance in <i>B. juncea</i> seedlings	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Environmental Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Department of Botany, DAV University, Jalandhar, Punjab, India; Department of Botany, Punjabi University, Patiala, Punjab, India	7	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029627452&doi=10.1016%2fj.ecoenv.2017.09.035&partnerID=40&md5=763042fced8b6fee899292d158a63322
1246	Jasmonic acid induced changes in physio-biochemical attributes and ascorbate-glutathione pathway in <i>Lycopersicon esculentum</i> under lead stress at different growth stages	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botany and Microbiology, Faculty of Science, King Saud University, Riyadh, 11451, Saudi Arabia; Department of Botany, S.P. College, Srinagar, Jammu and Kashmir 190001, India	9	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050218957&doi=10.1016%2fj.scitotenv.2018.07.164&partnerID=40&md5=9e1a4192bfb1ac50597299edc688ba5f
1247	Multi-factor user authentication scheme for IoT-based healthcare services	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab 144001, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062713070&doi=10.1007%2fs40860-018-0062-5&partnerID=40&md5=951a51803d64a3bda8f3a4390c60f44e
1248	Environment Friendly Machining of Inconel 625 under Nano-Fluid Minimum Quantity Lubrication (NMQL)	Department of Mechanical Engineering, Punjabi University, Patiala, India; Department of Mechanical Engineering, S S Giri, Punjab University Regional Center, Hoshiarpur, Punjab, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056608559&doi=10.1007%2fs12541-018-0196-7&partnerID=40&md5=e8656ba8a3453bc6765b4adedff9d9b2
1249	Thermally stable microemulsions comprising imidazolium based surface active ionic liquids, non-polar ionic liquid and ethylene glycol as polar phase	Department of Chemistry, UGC-Centre for Advance Studies – II, Guru Nanak Dev University, Amritsar, 143005, India	5	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030991006&doi=10.1016%2fj.icis.2017.10.025&partnerID=40&md5=51d5cccb273ea81a1bd1f1646e2f681a

1250	Influence of replacing wheat bran with barley bran on dough rheology, digestibility and retrogradation behavior of chapatti	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027878866&doi=10.1016%2fi.foodchem.2017.08.042&partnerID=40&md5=bba750b96a438736986d8a609fc5974b
1251	Azide-alkyne cycloaddition En route to 1H-1,2,3-triazole-tethered isatin-ferrocene, ferrocenylmethoxy-isatin, and isatin-ferrocenylchalcone conjugates: Synthesis and antiproliferative evaluation	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; School of Molecular and Cell Biology, University of the Witwatersrand, Private Bag 3, Wits, Johannesburg, 2050, South Africa	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047865373&doi=10.1021%2facsomega.7b01755&partnerID=40&md5=b3175a242c5216eb9949892e13b23b2
1252	Non-covalently anchored multi-walled carbon nanotubes with hexadecafluorinated zinc phthalocyanine as ppb level chemiresistive chlorine sensor	Material Science Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Technical Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; CSIR-National Physical Laboratory, New Delhi, 110012, India	6	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029160515&doi=10.1016%2fi.apsusc.2017.08.040&partnerID=40&md5=b4f503bd29a35cc82d9e4b6523dd1b7c
1253	Satisfaction, trust and loyalty: investigating the mediating effects of commitment, switching costs and corporate image	Department of Commerce, Guru Nanak Dev University, Amritsar, India; Department of Management, I.K. Gujral Punjab Technical University Kapurthala, Kapurthala, Punjab, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057962780&doi=10.1108%2fJA85-08-2015-0119&partnerID=40&md5=5ec080f423189e2caec23c076d0fed18
1254	Performance analysis of statistical and supervised learning techniques in stock data mining	Department of Computer Science and Applications, DAV University, Jalandhar, 144401, India; Department of Computer Science, Guru Nanak Dev University, Amritar, 143001, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066460583&doi=10.3390%2fdata3040054&partnerID=40&md5=4552edb257fae89107374ae943a58920
1255	Selenium ameliorates chromium toxicity through modifications in pigment system, antioxidative capacity, osmotic system, and metal chelators in Brassica juncea seedlings	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botany, School of Bioengineering and Biosciences, Lovely Professional University, Phagwara, Punjab 144411, India; State Key Laboratory of Subtropical Silviculture, Zhejiang A&F University, Hangzhou, 311300, China; Department of Botany and Microbiology, College of Science, King Saud University, Riyadh, 11451, Saudi Arabia; Department of Botany, S.P. College, Srinagar, Jammu and Kashmir 190001, India	8	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051970202&doi=10.1016%2fi.sajb.2018.08.003&partnerID=40&md5=30354ec0f3593807f8a7589fa2677caf
1256	Comparative study of structural and functional characterization of bran protein concentrates from superfine, fine and coarse rice cultivars	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143 005, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040231904&doi=10.1016%2fi.jbiomac.2017.12.161&partnerID=40&md5=418193f4429ee4e029eb626ff3ae503
1257	1 H-1,2,3-Triazole Tethered Nitroimidazole-Isatin Conjugates: Synthesis, Docking, and Anti-Proliferative Evaluation against Breast Cancer	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; School of Molecular and Cell Biology, University of the Witwatersrand, Private Bag 3, Johannesburg, Wits, 2050, South Africa; School of Chemistry and Physics, University of KwaZulu Natal, P/Bag X54001, Durban, Westville, 4000, South Africa; Department of Chemistry, Khalsa College, Amritsar, 143005, India	10	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054330256&doi=10.1021%2facsomega.8b01513&partnerID=40&md5=220b97690f4b2d8d299c01d8894569e5
1258	Effect of degree of milling on physicochemical, structural, pasting and cooking properties of short and long grain Indica rice cultivars	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Applied Agriculture, Central University of Punjab, Bathinda, 151001, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045103890&doi=10.1016%2fi.foodchem.2018.03.092&partnerID=40&md5=80101db2f87e17f9dac3ab3f078283e8
1259	Silver nanoparticles anchored reduced graphene oxide for enhanced electrocatalytic activity towards methanol oxidation	Material Science Research LaboratoryDepartment of PhysicsGuru Nanak Dev University, Amritsar, 143005, India; Department of PhysicsKanya Maha Vidyalaya, Jalandhar, 144004, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040077626&doi=10.1016%2fi.cplett.2018.01.003&partnerID=40&md5=0fdd1e698bb729e951e9536c34b23cce
1260	Topical Nanostructured Lipid Carrier Based Hydrogel of Mometasone Furoate for the Treatment of Psoriasis	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057103742&doi=10.2174%2f2211738506666180523112513&partnerID=40&md5=9b6cfbc035864067e37fb22326773cc9
1261	Reversible and fast responding ppb level Cl2 sensor based on noncovalent modified carbon nanotubes with Hexadecafluorinated copper phthalocyanine	Material Science Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; S.I.E.T. Ram Tirath Road, Amritsar, 143107, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Technical Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; CSIR-National Physical Laboratory, New Delhi, 110012, India	7	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029435892&doi=10.1016%2fi.snb.2017.08.013&partnerID=40&md5=e1e02ce6fe38345363aa247e92673e59
1262	A lightweight multi-factor secure smart card based remote user authentication scheme for cloud-IoT applications	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053121570&doi=10.1016%2fi.ijsa.2018.08.003&partnerID=40&md5=e37587e2f775996451207bad75d45e43

1263	Structural, optical and thermal properties of glass and anti-glass phases in strontium tellurite and borotellurite systems doped with europium	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry and Process & Recourse Engineering, University of Cantabria, Santander, 39005, Spain; Department of Chemistry & Biochemistry, Florida State University, Tallahassee, FL 3206-4390, United States	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048709358&doi=10.1016%2fj.materresbull.2018.06.020&partnerID=40&md5=ba1fef050ef78df4b29509828b16c209
1264	Spectroscopic investigations of Sm ³⁺ -doped lead alumino-borate glasses containing zinc, lithium and barium oxides	Department of Physics, BBK DAV College for Women, Amritsar, Punjab 143001, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143001, India; Department of Mathematics, Guru Nanak Dev University, Amritsar, Punjab 143001, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047854233&doi=10.1016%2fj.jallcom.2018.05.319&partnerID=40&md5=ecc7c180de7fddef28d63fa816398fb9
1265	An Optical-Fog assisted EEG-based virtual reality framework for enhancing E-learning through educational games	Department of Computer Science & Engineering, Guru Nanak Dev University, Gurdaspur, Punjab, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053850318&doi=10.1002%2fcae.21965&partnerID=40&md5=5728b1acb35aef19b8fe27c6b154f76
1266	Structural, morphological, functional and digestibility properties of starches from cereals, tubers and legumes: a comparative study	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; Department of Applied Biological Science, Fukuyama University, Fukuyama, Japan	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050552371&doi=10.1007%2fs13197-018-3342-4&partnerID=40&md5=804293f69a26ca85f1ac19d319597f9e
1267	WO ₃ nanolamellae/reduced graphene oxide nanocomposites for highly sensitive and selective acetone sensing	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048666656&doi=10.1007%2fs10853-018-2558-z&partnerID=40&md5=36acfcf1b8fdd9438a66e804b5ca9180
1268	Castasterone and Citric Acid Supplementation Alleviates Cadmium Toxicity by Modifying Antioxidants and Organic Acids in Brassica juncea	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botany and Microbiology, Faculty of Science, King Saud University, Riyadh, 11451, Saudi Arabia; Department of Botany, S.P. College, Srinagar, Jammu and Kashmir 190001, India	8	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026535981&doi=10.1007%2fs00344-017-9727-1&partnerID=40&md5=c9bdb2e4a125cf3fbfa12910122371ea
1269	Sodium deoxycholate mediated enhanced solubilization and stability of hydrophobic drug Clozapine in pluronic micelles	Department of Chemistry, UGC-Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India; Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India	5	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030871769&doi=10.1016%2fj.saa.2017.10.015&partnerID=40&md5=ca dd22075110d592db971b97c07a9666
1270	An azine based sensor for selective detection of Cu ²⁺ ions and its copper complex for sensing of phosphate ions in physiological conditions and in living cells	Department of Chemistry, UGC-Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India; Department of Botany, Guru Nanak Dev University, Amritsar, 143005, India	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030215508&doi=10.1016%2fj.saa.2017.09.072&partnerID=40&md5=4b3fbe8c04a87e32c29dcafdb7735c68
1271	Ultrafine hybrid Cu ₂ O-Fe ₂ O ₃ nanoparticles stabilized by hexaphenylbenzene-based supramolecular assemblies: A photocatalytic system for the Ullmann-Goldberg coupling reaction	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057472797&doi=10.1039%2fc8gc02527d&partnerID=40&md5=d6fcd951017c881e2432fe2d1ad48e74
1272	A review of denoising medical images using machine learning approaches	Department of Computer Engineering & Technology, Guru Nanak Dev University, Amritsar, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053254430&doi=10.2174%2f1573405613666170428154156&partnerID=40&md5=b9be3f444c684ee77edbaa813acfc041
1273	Pyrimidine-chloroquinoline hybrids: Synthesis and antiplasmodial activity	Department of Chemistry, UGC-Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, South African Medical Research Council Drug Discovery and Development Research Unit, Institute of Infectious Disease and Molecular Medicine, University of Cape Town, Rondebosch, 7701, South Africa	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042040172&doi=10.1016%2fj.ejmech.2018.02.021&partnerID=40&md5=bbc37ee8a14ae7a263a7468ea339bebf
1274	Jasmonic acid-induced tolerance to root-knot nematodes in tomato plants through altered photosynthetic and antioxidative defense mechanisms	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botany, DAV University, Sarmastpur, Jalandhar, 144012, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botany and Microbiology, Faculty of Science, King Saud University, Riyadh, 11451, Saudi Arabia; Department of Botany, S.P. College, Srinagar, Jammu and Kashmir 190001, India	8	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029427890&doi=10.1007%2fs00709-017-1160-6&partnerID=40&md5=9f1e80072d5992c089a999682b7b400e

1275	Catalyst-Controlled Structural Divergence: Selective Intramolecular 7-endo-dig and 6-exo-dig Post-Ugi Cyclization for the Synthesis of Benzoxazepinones and Benzoxazinones	Department of Chemistry, Mohanlal Sukhadia University, Udaipur, 313001, India; Department of Chemistry, U.G.C. Centre of Advance Studies in Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry and Chemical Sciences, Central University of Jammu, Jammu, 180011, India; Department of Chemistry, Indian Institute of Technology Ropar (IIT Ropar), Rupnagar, 140001, India; Department of Chemistry, Banasthali University, Newai-Jodhpuriya Road, Vanasthali, 304022, India	8	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85037597474&doi=10.1021%2facsc.ioc.7b02123&partnerID=40&md5=b988ab44eb871818b302eb408bff90e6
1276	Multifunctional metallo-supramolecular interlocked hexagonal microstructures for the detection of lead and thiols in water	Department of Chemistry, UGC Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemical Sciences, IK Gujral Punjab Technical University, Kapurthala, Punjab, 144601, India	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051919088&doi=10.1039%2fc8cc05814h&partnerID=40&md5=a7eb3aa7ed8337c06556520bc23ac75e
1277	First-principles investigation on defect-induced silicene nanoribbons — A superior media for sensing NH3 NO2 and NO gas molecules	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, 144007, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85039802645&doi=10.1016%2fj.susc.2017.12.013&partnerID=40&md5=2929ff7c6584695d3cc9a2a4c5e4f677
1278	2-(4-Amino-2-hydroxyphenyl)benzothiazole based Schiff-base: Complexation/decomplexation driven photo physical tuning of fluorescence leading to Cu2+ and PO43– detection	Department of Chemistry, UGC-Centre of Advanced Study-II, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85034610265&doi=10.1016%2fj.snb.2017.10.173&partnerID=40&md5=e6d448d05e2699b2ce7d87707e99811b
1279	Glass and anti-glass phase co-existence and structural transitions in bismuth tellurite and bismuth niobium tellurite systems	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85037972313&doi=10.1016%2fj.inoncrsol.2017.12.002&partnerID=40&md5=ab888823750093cd49ed6a45a25ddb3f
1280	Jasmonic acid seed treatment stimulates insecticide detoxification in brassica juncea L.	State Key Laboratory of Subtropical Silviculture, Zhejiang A&F University, Hangzhou, China; Plant Stress Physiology Lab, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Botany & Environment Studies, DAV University, Jalandhar, India; Department of Horticulture, Zhejiang University, Hangzhou, China	7	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058796860&doi=10.3389%2fpls.2018.01609&partnerID=40&md5=462cf7ec3b46d146074e2a064f17aebc
1281	AIE + ESIPT based red fluorescent aggregates for visualization of latent fingerprints	Department of Chemistry, UGC Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemistry, Trinity College, Jalandhar, Punjab 144009, India; Department of Chemical Sciences, IK Gujral Punjab Technical University, Kapurthala, Punjab 144601, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050616988&doi=10.1039%2fc8ni02646g&partnerID=40&md5=26b4c6446de2041941ce31fcdd68b659
1282	Synthesis and Preliminary Antimicrobial Analysis of Isatin-Ferrocene and Isatin-Ferrocenyl Chalcone Conjugates	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Biological Sciences, University of the Pacific, Stockton, CA 95211, United States; Foodborne Toxin Detection and Prevention Research Unit, Agricultural Research Service, United States Department of Agriculture, Albany, CA 94710, United States	11	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047856844&doi=10.1021%2facsc.omega.8b00553&partnerID=40&md5=23c8c2a993c1242949b75a7fd049a615
1283	Microstructural, physicochemical, antioxidant, textural and quality characteristics of wheat muffins as influenced by partial replacement with ground flaxseed	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041472245&doi=10.1016%2fj.lwt.2018.01.059&partnerID=40&md5=1cee67f53cfef65715d6d3510b905a5c
1284	Assessment of radon concentration and heavy metal contamination in groundwater of Udhampur district, Jammu & Kashmir, India	Department of Physics, DAV College, Amritsar, Punjab 143001, India; Department of Physics, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, Punjab 144011, India; Central Ground Water Board, North Western Himalayan Region, Jammu, J&K, India; Radiological Physics and Advisory Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143001, India	6	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031915407&doi=10.1007%2fs10653-017-0027-2&partnerID=40&md5=cb65b657d344c3c89e2c1a39c145f062
1285	Effect of polarization force on head-on collision between multi-solitons in dusty plasma	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044404250&doi=10.1063%2f1.5020194&partnerID=40&md5=bf2029cd700509a03d6f92f261d018d4
1286	Characterization of mucilages extracted from different flaxseed (Linum usitatissimum L.) cultivars: A heteropolysaccharide with desirable functional and rheological properties	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; Department of Food Science and Technology, Chaudhary Devi Lal University, Sirsa, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048066759&doi=10.1016%2fj.ijbiomac.2018.06.010&partnerID=40&md5=f61fba77a4efe8745138be6e0c8149f0

1287	Blue-yellow emission adjustability with aluminium incorporation for cool to warm white light generation in dysprosium doped borate glasses	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, Khalsa College, Amritsar, 143005, India; Department of Physics, BBK DAV College Amritsar143005, India; Department of Mathematics, Guru Nanak Dev University, Amritsar, 143005, India	9	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047505381&doi=10.1016%2fj.ijlumin.2018.05.034&partnerID=40&md5=f23684ebcd4fbc048350eca622d6e71d
1288	Role of earthworms in phytoremediation of cadmium (Cd) by modulating the antioxidative potential of Brassica juncea L.	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botany, DAV University Sarmastpur, Jalandhar, 144012, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85035216296&doi=10.1016%2fj.apssoil.2017.11.017&partnerID=40&md5=213c3593a341f6697d77bd4152e4214a
1289	Investigation of gamma ray shielding, structural and dissolution rate properties of Bi2O3-BaO-B2O3-Na2O glass system	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	7	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028941193&doi=10.1016%2fj.radphyschem.2017.08.008&partnerID=40&md5=e979b393c12e7aa488f4beba581e3eed
1290	Enzymatic browning of fruit and vegetables: A review	Post Graduate Department of Biotechnology, Khalsa College Amritsar, Amritsar, Punjab, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; Centre for Applied Agriculture, Central University of Punjab, Bathinda, India	6	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074361751&doi=10.1007%2f978-981-13-1933-4_4&partnerID=40&md5=021f3d933928d7312bc60a6bb6efee41
1291	Tinospora cordifolia as a potential neuroregenerative candidate against glutamate induced excitotoxicity: An in vitro perspective 11 Medical and Health Sciences 1109 Neurosciences	Department of Biotechnology, Medical Biotechnology Lab, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054289223&doi=10.1186%2fs12906-018-2330-6&partnerID=40&md5=2bf1bd4ede2fee06269a3d4c3e5aed7
1292	Self-focusing of an elliptic-Gaussian laser beam in relativistic ponderomotive plasma using a ramp density profile	I. K. Gujral Punjab Technical University, Kapurthala, 144603, India; Department of Applied Science, Lyallpur Khalsa College of Engineering, Jalandhar, 144001, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143 005, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049241914&doi=10.1364%2fjOSA.35.001635&partnerID=40&md5=44a9589a11fe24e744b387be57355215
1293	Nitrioltriactic acid modified bamboo charcoal (NTA-MBC): An effective adsorbent for the removal of Cr (III) and Cr (VI) from aqueous solution	Department of Botanical and Environmental Sciences, Amritsar, Punjab, India; Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab, India	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045886557&doi=10.1016%2fj.icee.2018.04.045&partnerID=40&md5=e0a583edd1c06daa4678ad739e7a10f7
1294	Soil amendments: a tool to reduce heavy metal uptake in crops for production of safe food	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032358545&doi=10.1007%2fs11157-017-9451-0&partnerID=40&md5=fe8a4ba65f6fa8ac6f776b5b7c47cebe
1295	Smart surveillance robot for real-time monitoring and control system in environment and industrial applications	Department of CA&IT, KCL IM&T Jalandhar, Jalandhar, India; Department of Electronics and Communications Engineering, GNDU, Jalandhar, India; Graduate School, Duy Tan University, Da Nang, Viet Nam; Faculty of Information Technology, Haiphong University, Haiphong, Viet Nam	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85043757101&doi=10.1007%2f978-981-10-7512-4_23&partnerID=40&md5=86723b5b05dd68bba584251e9dad5eb4
1296	Microwave-promoted facile access to 4-aminoquinoline-phthalimides: Synthesis and anti-plasmodial evaluation	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Medicine, University of California, San Francisco, CA, United States	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85034752749&doi=10.1016%2fj.ejmech.2017.11.033&partnerID=40&md5=8152531aa9cfd323f81bc0a19f2b535e
1297	Broad-band microwave absorption of Sr0.85La0.15(MnZr)xFe12-2xO19 hexagonal ferrite in 18–40 GHz frequency range	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046166990&doi=10.1016%2fj.immm.2018.01.042&partnerID=40&md5=170922804a8587efb82b70abf7470fba
1298	Impact of various solid carriers and spray drying on pre/post compression properties of solid SNEDDS loaded with glimepiride: in vitro-ex vivo evaluation and cytotoxicity assessment	School of Pharmaceutical Sciences, Lovely Professional University, Phagwara, Punjab, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India; Department of Pharmaceutics, J.S.S. College of Pharmacy, Rocklands, Ooty, Tamilnadu, India; School of Ayurvedic Pharmaceutical Sciences, Lovely Professional University, Phagwara, Punjab, India	10	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041611550&doi=10.1080%2f03639045.2018.1431656&partnerID=40&md5=cf78ad2a6570c5704513af7cc06b2224
1299	Genetic association study from North India to analyze association of CYP19A1 and CYP17A1 with polycystic ovary syndrome	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Hartej Hospital, Ranjit Avenue, Amritsar, Punjab 143001, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044225097&doi=10.1007%2fs10815-018-1162-0&partnerID=40&md5=53b24aaeb0c4b50fed87fd31c4eca526
1300	Adsorption and dissociation of sulfur-based toxic gas molecules on silicene nanoribbons: a quest for high-performance gas sensors and catalysts	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Ladhewali Road, Jalandhar, Punjab 144007, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044237599&doi=10.1007%2fs00894-018-3631-x&partnerID=40&md5=d0e189257110995ab54a0c7a17d97bdc
1301	Electrical relaxation and conduction mechanisms in iron doped barium strontium titanate	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Inter-University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85035749462&doi=10.1016%2fj.ceramint.2017.11.158&partnerID=40&md5=a801f32035c14d73587fab6054ed46eb

1302	Electronic and transport properties of silicene-based ammonia nanosensors: an ab initio study	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, 144007, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028309659&doi=10.1007%2fs11224-017-1025-9&partnerID=40&md5=c8df5fd52b445277d4870e9a0ca5caad
1303	In vitro digestibility, pasting, and structural properties of starches from different cereals	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059209856&doi=10.1080%2f10942912.2018.1439955&partnerID=40&md5=592fcf37d5d323a12fc2874963d873f4
1304	Mixolab, retrogradation and digestibility behavior of chapatti made from hulless barley flours	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85036547519&doi=10.1016%2fj.jcs.2017.11.003&partnerID=40&md5=7ed07364b34c1d4a323a2d67b499384f
1305	Synthesis, structures, and ESI-mass studies of silver(I) derivatives of imidazolidine-2-thiones: Antimicrobial potential and biosafety evaluation	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemistry, Keene State College, Keene, NH 03435-2001, United States	7	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030831425&doi=10.1016%2fj.iinorgbio.2017.10.002&partnerID=40&md5=dd04025a3b5c8669528754f29627988e
1306	Enhanced dielectric and optical properties of nanoscale barium hexaferrites for optoelectronics and high frequency application	Department of Physics, School of Chemical Engineering and Physical Sciences, Lovely Professional University, Phagwara, Punjab, 144411, India; Department of Physics, Faculty of Science, Federal University Dutse, P M B 7156, Jigawa state, Dutse, Nigeria; SRM Research Institute, SRM University, Kattankulathur Chennai, 603203, India; Department of Polymer and Processing Engineering, Indian Institute of Technology Roorkee, Saharanpur Campus, Saharanpur, 247001, U P, India; Department of Chemistry, Guru Nanak Dev University, Amritsa, 143005, India	8	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059237985&doi=10.1088%2f1674-1056%2f27%2f12%2f128104&partnerID=40&md5=a5d98fea49d2bbab76e2ff105e6529c5
1307	Effect of polarization force on dust-acoustic cnoidal waves in dusty plasma	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053386626&doi=10.1140%2fepid%2fe2018-90228-2&partnerID=40&md5=517de50e1c0ed10f44080541bdc90ce9
1308	Investigation of thermoluminescence and kinetic parameters of gamma ray exposed LiF: Sm3+, Eu3+ nanophosphors for dosimetric applications	I.K. Gujral Punjab Technical University, Kapurthala, Punjab, India; Beant College of Engineering & Technology, Gurdaspur, Punjab, India; Department of Physics, Shri Mata Vaishno Devi University, Katra, Jammu and Kashmir 182320, India; Department of Physics, G.N.D.U., Amritsar, Punjab, India; Centre For Materials Science and Engg., NIT HamirpurHimachal Pradesh 177005, India; Swami Premanand Mahavidyalaya, Mukerian, Punjab 144211, India	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048526657&doi=10.1016%2fj.ceramint.2018.05.215&partnerID=40&md5=1c958e9e0ae6b2f5ea94b952a809c0cb
1309	Performance analysis of WDM-FSO system under adverse weather conditions	Guru Nanak Dev University, Regional Campus, Jalandhar, India	1	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044220031&doi=10.1007%2fs11107-018-0763-y&partnerID=40&md5=d21cdcc5e740b8a88a9102a71af5044f
1310	Characteristics of white, yellow, purple corn accessions: phenolic profile, textural, rheological properties and muffin making potential	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2018	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046444294&doi=10.1007%2fs13197-018-3171-5&partnerID=40&md5=989c29865a634b9b16b6031ca6da89f6
1311	Phenolic compounds as antioxidants and chemopreventive drugs from Streptomyces cellulosa strain TES17 isolated from rhizosphere of Camellia sinensis	Guru Nanak Dev University, Department of Microbiology, Amritsar, Punjab, 143005, India; Guru Nanak Dev University, Department of Botanical and Environmental Sciences, Amritsar, Punjab, 143005, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85043463656&doi=10.1186%2fs12906-018-2154-4&partnerID=40&md5=360ce7f24b01cfd3354424f7c9e8ba7a
1312	Structural, Morphological, Thermal, and Pasting Properties of Starches From Diverse Indian Potato Cultivars	Department of Food Science and Technology, Guru Nanak Dev UniversityAmritsar 143005, India; Central University of Punjab, Centre for Applied AgricultureBathinda 151001, India; Central Potato Research InstituteShimla, India; Graduate School of Bioresources, Mie University, Tsu, Mie 514-8507, Japan; NARO Hokkaido Agricultural Research Center (NARO/HARC), Memuro, Hokkaido 082-0081, Japan	7	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85035234235&doi=10.1002%2fstar.201700130&partnerID=40&md5=9231236b200dcfe31c1d3ae1e6371d11
1313	Structural complexity and functional diversity of plant NADPH oxidases	Department of Biotechnology, Guru Nanak Dev University, Amritsar, India; Bioinformatics, Centre for Cellular and Molecular Biology, Uppal Road, Hyderabad, India; Department of Biochemistry and Biophysics, School of Medicine, University of North Carolina, Chapel Hill, NC, United States; R. L. Juliano Structural Bioinformatics Core Facility, School of Medicine, University of North Carolina, Chapel Hill, NC, United States; Max Planck Institute for Developmental Biology, Tuebingen, Germany	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032186821&doi=10.1007%2fs00726-017-2491-5&partnerID=40&md5=d044c8940b02aee436434a57952f97d7

1314	Structural, thermal and photoluminescent properties of Eu2O3-Li2O-TeO2 glasses	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051654871&doi=10.1016%2fj.ijlumin.2018.08.022&partnerID=40&md5=147f624936e304c74f3aa7d1cfed5fa4
1315	Phytoremediation of Heavy Metals Using Cotton Plant: A Field Analysis	PG Department of Agriculture, Khalsa College, Amritsar, Punjab, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Zoology, Khalsa College, Amritsar, Punjab, India	5	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055956710&doi=10.1007%2fs00128-018-2472-8&partnerID=40&md5=105649a954aaecf31ef4d8cc1859503e
1316	Impact of solid carriers and spray drying on pre/post-compression properties, dissolution rate and bioavailability of solid self-nanoemulsifying drug delivery system loaded with simvastatin	School of Pharmaceutical Sciences, Lovely Professional University, Punjab, 144 401, India; School of Pharmaceutical Science (Ayurvedic Pharmacy), Lovely Professional University, Punjab, 144 401, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India; Department of Pharmaceutics, J.S.S. College of Pharmacy, Rocklands, Ooty, Tamilnadu, India	16	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050790465&doi=10.1016%2fj.powtec.2018.07.092&partnerID=40&md5=2a777ca8d2a6e14de8f6b4964095e246
1317	Elucidation of microwave absorption mechanisms in Co–Ga substituted Ba–Sr hexaferrites in X-band	Department of Electronics and Communication Engineering, Sant Longowal Institute of Engineering and Technology, Longowal, Sangrur, Punjab, India; Department of Electronics and Communication Engineering, Lovely Professional University, Phagwara, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Physics, Electronics and Space Science, University School of Sciences, Gujarat University, Ahmedabad, Gujarat, India; Department of Physics and Materials Science, University of Memphis, Memphis, United States; Institute of Advanced Materials and Technology, University of Science and Technology Beijing, Beijing, China; School of Physics, University of Hyderabad, Hyderabad, India; Department of Electronics and Communication Engineering, Indian Institute of Technology, Roorkee, India; Department of Physics, Telecommunications and Materials Science and Engineering Laboratory (LOCEM), Federal University of Ceara-UFC, Fortaleza, Brazil; Department of Electronics and Communication Engineering, CT Institute of Engineering and Management Technology, Jalandhar, Punjab, India	12	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050534242&doi=10.1007%2fs10854-018-9638-3&partnerID=40&md5=05dab2212f1f03af1189b9f535d2f418
1318	Amphiphilic Ionic Liquid-Induced Membrane Permeabilization: Binding is Not Enough	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Institute for Medical Physics and Biophysics, Leipzig University, Leipzig, 04109, Germany	7	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048376006&doi=10.1021%2facs.jpcc.8b03733&partnerID=40&md5=c0af31173e3ee4788b48ceadec1a8e9d
1319	Dissymmetric Bay -Functionalized Perylenediimides	Department of Chemistry, UGC Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemical Sciences, IK Gujral Punjab Technical University, Kapurthala, Punjab, 144601, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048862853&doi=10.1055%2fs-0037-1610186&partnerID=40&md5=837752feeb1cc81ff0fjee97d4714a3
1320	Reactive oxygen species dynamics in roots of salt sensitive and salt tolerant cultivars of rice	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046167457&doi=10.1016%2fj.ab.2018.04.019&partnerID=40&md5=08928f90a4772d7d5256863fa911b754
1321	Evaluation of micellar properties of sodium dodecylbenzene sulphonate in the presence of some salts	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143 005, India; Department of Mathematics, DAV College, Amritsar, Punjab 143 001, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044599753&doi=10.1007%2fs12039-018-1446-z&partnerID=40&md5=ad32fce7d6ed862a67a3c61cf7d6c9a2
1322	Effect of sodium chloride on the interactions of ciprofloxacin hydrochloride with sodium dodecyl sulfate and hexadecyl trimethylammonium bromide: Conductometric and spectroscopic approach	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041462282&doi=10.1016%2fj.molliq.2018.01.089&partnerID=40&md5=8482fd004b2f0d8dea1351ddd7289a5a
1323	A novel design of compact monopole antenna with defected ground plane for wideband applications	Yadavindra College of Engineering, Punjabi University, Guru Kashi Campus, Bathinda, Talwandi Sabo, Punjab, India; Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049651149&doi=10.2528%2fPIERM18050201&partnerID=40&md5=0dd31272698b9be74bb90ab04f733ead

1324	Mitigating Cadmium Toxicity in Plants by Phytohormones	Department of Botany, M.C.M. DAV College for Women, Chandigarh, India; Department of Environment Education, Government College of Commerce and Business Administration, Chandigarh, India; Department of Botany, DAV University, Jalandhar, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-8507433887&doi=10.1016%2fB978-0-12-814864-8.00015-2&partnerID=40&md5=4d5fb04def4688ed64bbd2e54113be82
1325	Morpho-structural and opto-electrical properties of chemically tuned nanostructured TiO2	Department of Physics, Eternal University, Baru Sahib, Himachal Pradesh 173101, India; Department of Renewable Energy, Eternal University, Baru Sahib, Himachal Pradesh 173101, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143001, India	6	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049805208&doi=10.1016%2fj.ceramint.2018.07.068&partnerID=40&md5=0e45b00bcb475070df38c1ea12b5f44d
1326	Remote sensing image fusion using fuzzy logic and gyrator transform	Computer Science and Engineering Department, Thapar Institute of Engineering and Technology Punjab, India; Computer Science and Engineering Department, Guru Nanak Dev University, Amritsar, Punjab, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055755239&doi=10.1080%2f2150704X.2018.1500044&partnerID=40&md5=3dc76fd75a02226638996b4fac8623a2
1327	Insights into fluoride-induced oxidative stress and antioxidant defences in plants	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053855902&doi=10.1007%2fs11738-018-2754-0&partnerID=40&md5=42db02ff7fe5de7d9e717e3f92a6f6ed
1328	Withania somnifera as a Potential Anxiolytic and Anti-inflammatory Candidate Against Systemic Lipopolysaccharide-Induced Neuroinflammation	Medical Biotechnology Laboratory, Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047827948&doi=10.1007%2fs12017-018-8497-7&partnerID=40&md5=a288e1bb657dc055125f513a7050ce1
1329	Nanoencapsulation of docosahexanoic acid (DHA) using combination of food grade polymeric wall materials and its application for improvement in bioavailability and oxidative stability	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143105, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143105, India; Department of Pathology, Government Medical College, Amritsar, Punjab 143001, India	5	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053772018&doi=10.1039%2fC7F001391D&partnerID=40&md5=faae0b2a1ef01f9b3b8ba76519efd08e
1330	Identity based secure authentication scheme based on quantum key distribution for cloud computing	Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84994472502&doi=10.1007%2fs12083-016-0528-2&partnerID=40&md5=a36d7b0db5747e9585bcdd47463c6bd
1331	Structural diversity and photo-physical and magnetic properties of dimeric to 1D polymeric coordination polymers of lighter lanthanide(III) dinitrobenzoates	Department of Chemistry, UGC Sponsored Centre of Advance Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Institut des Sciences Chimiques de Rennes, UMR 6226 CNRS-Université de Rennes 1, 263 Avenue du Général Leclerc, Rennes Cedex, 35042, France; Institut des Sciences Chimiques de Rennes, UMR CNRS 6226, INSA Rennes, 20 Avenue des buttes de Coesmes, Rennes, 35708, France	7	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044507629&doi=10.1039%2fc7d04596d&partnerID=40&md5=cef38b64e4167baef371c2c959a4b106
1332	Design, synthesis, anti-proliferative evaluation and docking studies of 1: H -1,2,3-triazole tethered ospemifene-isatin conjugates as selective estrogen receptor modulators	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; School of Molecular and Cell Biology, University of the Witwatersrand, Private Bag 3, Wits, Johannesburg, 2050, South Africa; School of Chemistry and Physics, University of KwaZulu Natal, P/Bag X54001, Westville, Durban, 4000, South Africa	7	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042671204&doi=10.1039%2fc7ni04964a&partnerID=40&md5=c40da73.849d8ecbe6bf1cf5a7cc995f6
1333	Hydrophobically Driven Morphologically Diverse Self-Assembled Architectures of Deoxycholate and Imidazolium-Based Biamphiphilic Ionic Liquids in Aqueous Medium	Department of Chemistry, UGC-Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058569378&doi=10.1021%2facs.jpcc.8b10161&partnerID=40&md5=3771f737d2dd34d20f73de95c2afcd2d
1334	Internet of Things based activity surveillance of defence personnel	Guru Nanak Dev University, Regional Campus, Gurdaspur, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049585066&doi=10.1007%2fs12652-017-0507-3&partnerID=40&md5=e3e588b23fd60fb75c847af010ed0a4c
1335	Aggregation Behavior of Sodium Dioctyl Sulfosuccinate in Deep Eutectic Solvents and Their Mixtures with Water: An Account of Solvent's Polarity, Cohesiveness, and Solvent Structure	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055181033&doi=10.1021%2facsomega.8b01637&partnerID=40&md5=a1928e17a45493fc08a82509a96a2171
1336	Kyasanur Forest Disease Classification Framework Using Novel Extremal Optimization Tuned Neural Network in Fog Computing Environment	Department of Electronics and Communication Engineering, National Institute of Technology Silchar, Silchar, India; Department of Mechanical Engineering, National Institute of Technology Silchar, Silchar, India; Guru Nanak Dev University, Regional Campus, Gurdaspur, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052710030&doi=10.1007%2fs10916-018-1041-3&partnerID=40&md5=a6c769b397298986dc68fda2a8601599

1337	Population growth, urbanization and electricity - Challenges and initiatives in the state of Punjab, India	Guru Ramdas School of Planning, Guru Nanak Dev University, Amritsar, 143005, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046672190&doi=10.1016%2fj.esr.2018.04.005&partnerID=40&md5=ad1fde911edca3df8891669874a960ab
1338	Temperature dependent selective detection of hydrogen and acetone using Pd doped WO3/reduced graphene oxide nanocomposite	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046157945&doi=10.1016%2fj.cplett.2018.04.049&partnerID=40&md5=4df16c19cd245e43248d9d64e2313f8c
1339	Recent Developments in the Synthesis of Pyrido[1,2- a]benzimidazoles	Department of Chemistry, University of Jammu, Jammu, 180006, India; Department of Chemistry and Chemical Sciences, Central University of Jammu, Jammu, 181143, India; Academy of Scientific and Innovative Research (AcSIR), New Delhi, 110001, India; Medicinal Chemistry Division, Indian Institute of Integrative Medicine (CSIR), Jammu, 180001, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Applied Chemistry, Indian Institute of Technology, Indian School of Mines, Dhanbad, 826004, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046039784&doi=10.1055%2fs-0036-1589533&partnerID=40&md5=44a9c0b3c3abe52b94a0321222b1ffdc
1340	Producing methane, methanol and electricity from organic waste of fermentation reaction using novel microbes	Department of Chemical and Biological Engineering, South Dakota School of Mines and Technology, Rapid City, SD 57701, United States; BuG ReMeDEE Consortium, South Dakota School of Mines and Technology, Rapid City, SD 57701, United States; Composite and Nanocomposite Advanced Manufacturing Centre – Biomaterials (CNAM/Bio), Rapid City, SD 57701, United States; Department of Civil and Environmental Engineering, South Dakota School of Mines and Technology, Rapid City, SD 57701, United States; Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Hexpoint Technologies Inc., PO Box1159, Panama City, FL 32402, United States; Surface Engineering Research Centre, South Dakota School of Mines and Technology, Rapid City, SD 57701, United States	8	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85043487532&doi=10.1016%2fj.biortech.2018.02.128&partnerID=40&md5=447d908f97fb3d1a48abc204dd509bf8
1341	Proteinaceous secretory metabolites of probiotic human commensal Enterococcus hirae 20c, E. faecium 12a and L12b as antiproliferative agents against cancer cell lines	Department of Microbiology, Guru Nanak Dev University, Amritsar, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047000423&doi=10.3389%2ffmicb.2018.00948&partnerID=40&md5=efaf474996c4d9389635fa58b2a0b613
1342	Organic cultivation of ashwagandha with improved biomass and high content of active withanolides: Use of vermicompost	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India; Drug Discovery and Assets Innovation Lab, DBT-AIST International Laboratory for Advanced Biomedicine (DAILAB), National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan	8	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045563271&doi=10.1371%2fjournal.pone.0194314&partnerID=40&md5=0b00a3efb07288372ee0ec063ab38757
1343	Smart fluorescent AIEE active supramolecular polymeric assemblies for selective and quantitative detection of fluoride ions in aqueous media	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85035774435&doi=10.1016%2fj.snb.2017.11.076&partnerID=40&md5=7718bc04a65239548b0e6e7a049532f1
1344	Preliminary investigation of the effect of doping of copper oxide in CaO-SiO2-P2O5-MgO bioactive composition for bone repair applications	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India; Department cum National center for Human Genome studies and Research, Panjab University, Chandigarh, 160014, India	8	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030472163&doi=10.1016%2fj.msec.2017.09.006&partnerID=40&md5=1530cea7a466af758315b8acbe99ffda
1345	Fabrication of Biodegradable Superabsorbent Using RSM Design for Controlled Release of KNO3	Research and Development Laboratory, Department of Chemistry, Dr B.R. Ambedkar National Institute of Technology, Jalandhar, Punjab, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85013761509&doi=10.1007%2fs10924-017-0959-8&partnerID=40&md5=c2a1079b83a795e760baba2fa485a964
1346	Unprecedented self-assembled architectures of surface-active ionic liquids in aqueous medium	Department of Chemistry, University Grants Commission (UGC), Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Bavarian Polymer Institute (BPI), KeyLab Electron and Optical Microscopy, University Bayreuth, Bayreuth, 95447, Germany	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042934885&doi=10.1039%2fc7cc09259h&partnerID=40&md5=ec648f0881ad733027d3e63932558011

1347	Gas-sensing properties of armchair silicene nanoribbons towards carbon-based gases with single-molecule resolution	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, 144007, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051083679&doi=10.1007%2fs11224-018-1170-9&partnerID=40&md5=5ea2f9b4563d294ad80f3a1a7163f4ff
1348	Tailoring the Substitution Pattern on 1,3,5-Triazine for Targeting Cyclooxygenase-2: Discovery and Structure-Activity Relationship of Triazine-4-Aminophenylmorpholin-3-one Hybrids that Reverse Algesia and Inflammation in Swiss Albino Mice	Department of Chemistry, UGC Sponsored Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India	8	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052329675&doi=10.1021%2fac.imedchem.8b00922&partnerID=40&md5=f0ecd02a6f5528b583fea4454558c719
1349	Dust acoustic shock waves in magnetized dusty plasma	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049381153&doi=10.1088%2f2058-6272%2faab491&partnerID=40&md5=642b1d7fb0984843c4d97cc3a50d8f9b
1350	Molecular interactions of choline based ionic liquids with water at different temperatures: An experimental study	Department of Chemistry, Indian Institute of Technology Madras, Chennai, 600036, India; Department of Chemical and Materials Engineering, National Central University, Jhongli, 320, Taiwan; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85043458666&doi=10.1016%2fj.molliq.2018.03.027&partnerID=40&md5=240ec6daee256d4563e7c99cf4fa82ee
1351	Ameliorative Role of Castasterone on Copper Metal Toxicity by Improving Redox Homeostasis in Brassica juncea L	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Environmental Sciences, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab 140406, India; Department of Botany, Punjabi University, Patiala, Punjab, India; Department of Botany and Microbiology, Faculty of Science, King Saud University, Riyadh, 11451, Saudi Arabia; Department of Botany, S.P. College, Srinagar, Jammu and Kashmir 190001, India	8	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032381675&doi=10.1007%2fs00344-017-9757-8&partnerID=40&md5=45226889ec4d46d7f4e599a8bcd367fb
1352	Extraction, profiling and bioactivity analysis of volatile glucosinolates present in oil extract of Brassica juncea var. raya	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Biochemistry, Sri Guru Ram Das Institute of Medical Sciences and Research, Amritsar, Punjab 143501, India	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044018701&doi=10.1007%2fs12298-018-0509-4&partnerID=40&md5=2e5a2e4cc502ad38462d328729bbe462
1353	Microwave absorption behavior and electromagnetic properties of Ni-Zr doped La-Sr hexagonal ferrite synthesized by auto-combustion method	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85039963915&doi=10.1016%2fj.materresbull.2017.12.006&partnerID=40&md5=9cda61d4837c071035e1c47da4ac08bf
1354	Expression of catalytically efficient xylanases from thermophilic fungus Malbranchea cinnamomea for synergistically enhancing hydrolysis of lignocellulose	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Central University of Gujarat, Gandhinagar, Gujarat, India; Division of Biological Sciences & Engineering, Netaji Subhas Institute of Technology, Azad Hind Fauz Marg, Dwarka, New Delhi, 110078, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Center for Structural and Functional Genomics, Concordia University, 7141 Sherbrooke Street West, Montreal, Quebec H4 B 1R6, Canada	6	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85035776778&doi=10.1016%2fj.jbiomac.2017.11.131&partnerID=40&md5=5828085af1741283d9c2dbb33068bd0b
1355	EKMT-k-means clustering algorithmic solution for low energy consumption for wireless sensor networks based on minimum mean distance from base station	DAV Institute of Engineering and Technology, Jalandhar, India; BBSBEC, Fatehgarh Sahib, India; Guru Nanak Dev University, Jalandhar, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090254889&doi=10.1007%2f978-981-10-4585-1_10&partnerID=40&md5=f1693ccbe44d56d7099629e7c23f836f
1356	Synthesis, structures, antimicrobial activity and biosafety evaluation of pyridine-2-formaldehyde-N-subsituted-thiosemicarbazones of copper(ii)	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143 005, India; Departamento de Quimica Inorganica, Facultad de Farmacia, Universidad de Santiago, Santiago, 15782, Spain; Department of Chemistry, Keene State College, Keene, NH 03435, United States	10	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054023477&doi=10.1039%2fC8NJ03619E&partnerID=40&md5=e838963b8520424a02373430da362f7a
1357	Segmenting Generation Y using the Big Five personality traits: understanding differences in fashion consciousness, status consumption and materialism	Guru Nanak Dev University, Amritsar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055422469&doi=10.1108%2fYC-03-2018-00788&partnerID=40&md5=8f4fe0972fecf445c0447d4c9d5c14a4
1358	Effect of Parboiling on Phenolic, Protein, and Pasting Properties of Rice from Different Paddy Varieties	Dept. of Food Science and Technology, Guru Nanak Dev Univ., Amritsar, 143005, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055957571&doi=10.1111%2f1750-3841.14347&partnerID=40&md5=4cca1a633b881bfea8b16445d48ede5

1359	Chiral Squaramide Catalyzed Enantioselective 1,6-Michael Addition of Pyrazolin-5-ones to Styrylisoxazole Derivatives	Department of Chemistry, U. G. C. Centre of Advance Studies in Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049957883&doi=10.1002%2fejoc.201800589&partnerID=40&md5=72baf0e272e41a577cc5b96e1d989b7e
1360	A Content Analysis of YouTube Political Advertisements: Evidence from Indian Parliamentary Elections	Department of Commercey, Guru Nanak Dev Universit, Amritsar, Punjab, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045247406&doi=10.1177%2f0973258618761408&partnerID=40&md5=719a19f35c0ac094701510078d121eca
1361	Corporate diversification and firm performance: an empirical investigation of causality	Department of Commerce, Guru Nanak Dev University, Amritsar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049029085&doi=10.1108%2fijOA-04-2017-1149&partnerID=40&md5=94f25d39ea8c5ea0f1db51db5d2bb667
1362	Transverse electromagnetic Hermite-Gaussian mode-driven direct laser acceleration of electron under the influence of axial magnetic field	Department of Physics, Lovely Professional University, G. T. Road, Phagwara, Punjab 144411, India; Scottish Universities Physics Alliance (SUPA), University of Strathclyde, Glasgow, G4 ONG, United Kingdom; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045856207&doi=10.1017%2fS0263034618000083&partnerID=40&md5=6b88747a9d840ece75de54788d18187d
1363	Enhancement of gold and silver recovery from discarded computer printed circuit boards by Pseudomonas balearica SAE1 using response surface methodology (RSM)	Department of Biotechnology and Bioinformatics, Jaypee University of Information Technology, Solan, Himachal Pradesh 173234, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041418394&doi=10.1007%2fs13205-018-1129-y&partnerID=40&md5=5f2406bce6bde9482937e2808216e039
1364	Sol-gel route approach and improvisation in physico-chemical, structural, magnetic and electrical properties of BaCox/2Znx/2ZrxFe(12–2x)O19 ferrites	Department of Chemistry, Indian Institute of Technology, New Delhi, India; Department of Chemistry, Hindu College, Amritsar, India; Department of Chemistry, Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, India; Department of Chemistry, BUC College, Batala, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030102324&doi=10.1016%2fj.immm.2017.09.055&partnerID=40&md5=cd6bcac153089766d36248c1cd525264
1365	Performance analysis of bulk arrival queue with balking, optional service, delayed repair and multi-phase repair	Department of Mathematics, Guru Nanak Dev University, Amritsar, India; Department of Mathematics, Indian Institute of Technology, Roorkee, India; Department of Applied Sciences, Khalsa College of Engineering & Technology, Amritsar, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014569400&doi=10.1016%2fj.asej.2016.08.025&partnerID=40&md5=31a26a09ca8b27cce327d2a5ed58909d
1366	Highly Potent 1H-1,2,3-Triazole-Tethered Isatin-Metronidazole Conjugates Against Anaerobic Foodborne, Waterborne, and Sexually-Transmitted Protozoal Parasites	Department of Chemistry, Guru Nanak Dev University, Amritsar, India; Center for Discovery and Innovation in Parasitic Diseases, Skaggs School of Pharmacy and Pharmaceutical Sciences, University of California, San Diego, La Jolla, CA, United States; Department of Biological Sciences, University of the Pacific, Stockton, CA, United States; Foodborne Toxin Detection and Prevention Research Unit, Agricultural Research Service, United States Department of Agriculture, Albany, CA, United States	9	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056544160&doi=10.3389%2ffj.cimb.2018.00380&partnerID=40&md5=a0b3f0053bc9ee24bb907d15a92eddab
1367	Frovatriptan loaded hydroxy propyl methyl cellulose/treated chitosan based composite fast dissolving sublingual films for management of migraine	I.K. Gujral Punjab Technical University, Kapurthala, Punjab, India; School of Pharmaceutical Sciences, Lovely Professional University, Phagwara, Punjab 144411, India; Guru Jambheshwar University of Science & Technology, Hisar, Haryana, India; Department of Oral and Maxillofacial Pathology, Shri Guru Ram Das Institute of Dental Sciences and Research, Amritsar, Punjab, India; Department of Pharmaceutics, Jan Nayak Ch Devi Lal Memorial College of Pharmacy, Sirsa, India; Department of Orthopaedics, Universiti Tunku Abdul Rahman, Malaysia; Department of Pharmaceutics, Khalsa College of Pharmacy, Amritsar, Punjab, India	6	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050537130&doi=10.1016%2fj.iddst.2018.06.018&partnerID=40&md5=19ed7585fb02e85b0de1bd8553d60f14
1368	Antioxidant and antimutagenic activities of different fractions from the leaves of rhododendron arboreum sm. And their gc-ms profiling	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Pharmaceutics, College of Pharmacy, King Saud University, Riyadh, 11451, Saudi Arabia; Department of Clinical Pharmacy, College of Pharmacy, King Saud University, Riyadh, 11451, Saudi Arabia; Department of Pharmacology, College of Pharmacy, Prince Sattam bin Abdulaziz University, Alkharaj, 11942, Saudi Arabia; Department of Botany and Microbiology, Faculty of Science, King Saud University, Riyadh, 11451, Saudi Arabia; Department of Botany, S.P. College, Srinagar, Jammu and Kashmir 190001, India	9	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052901232&doi=10.3390%2fmolecules23092239&partnerID=40&md5=79b78b923205077ff5b015f75e70d211

1369	Structural analysis of WO ₃ -TeO ₂ glasses by neutron, high energy X-ray diffraction, reverse Monte Carlo simulations and XANES	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Centre for Energy Research, Hungarian Academy of Sciences, Konkoly-Thege St. 29-33, Budapest, 1121, Hungary; Solid State Physics Division, Bhabha Atomic Research Centre, Trombay, Mumbai, 400085, India; Advanced Photon Source, Argonne National Laboratory, Bldg. 432B, 9700 S. Cass Avenue, Argonne, IL 60439, United States; Atomic & Molecular Physics Division, Bhabha Atomic Research Centre, Trombay, Mumbai, 400085, India	10	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046681370&doi=10.1016%2fj.inoncrv.2018.05.003&partnerID=40&md5=703b5687ec9cc342dc6d19d648989070
1370	Effect of La-Na Doping in Co-Ti Substituted Barium Hexaferrite on Electrical and X-Band Microwave Absorption Properties	D.A.V. Institute of Engineering and Technology, Jalandhar, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047253813&doi=10.1007%2fs11664-018-6349-8&partnerID=40&md5=574918fbc8140198442582b97a56469c
1371	A trustworthy system for secure access to patient centric sensitive information	Guru Nanak Dev University Regional Campus Gurdaspur, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030622602&doi=10.1016%2fj.tele.2017.09.008&partnerID=40&md5=00ca3b7a1dbd13008fbb8c96ece06b3c
1372	Design and Synthesis of Aza-/Oxa Heterocycle-Based Conjugates as Novel Anti-Inflammatory Agents Targeting Cyclooxygenase-2	Department of Chemistry, Centre for Advanced Studies, Amritsar, 143005, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India	5	2018	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047874686&doi=10.1021%2facso.omega.8b00445&partnerID=40&md5=138d8414a8089e8d69e71fa5420bf718
1373	Bioaccumulation and physiological responses to lead (Pb) in <i>Chenopodium murale</i> L	Department of Applied Sciences, University Institute of Engineering and Technology, Panjab University, Chandigarh, 160014, India; Department of Botany, M.C.M. DAV College for Women, Chandigarh, 160036, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Environment Studies, Panjab University, Chandigarh, 160014, India; Department of Botany, Panjab University, Chandigarh, 160014, India; Central University of Punjab, Mansa Road, Bathinda, 151001, India	6	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040090317&doi=10.1016%2fj.ecoenv.2017.12.068&partnerID=40&md5=49db83a6a9d1f8291fa6b36d37dfde2e
1374	Establishment of LCMS Based Platform for Discovery of Quorum Sensing Inhibitors: Signal Detection in <i>Pseudomonas aeruginosa</i> PAO1	Microbial Biotechnology Division, Indian Institute of Integrative Medicine (CSIR), Canal Road, Jammu, 180001, India; Medicinal Chemistry Division, Indian Institute of Integrative Medicine (CSIR), Canal Road, Jammu, 180001, India; Natural Product Chemistry Division, Indian Institute of Integrative Medicine (CSIR), Canal Road, Jammu, 180001, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, 143001, India; Academy of Scientific and Innovative Research, Jammu Campus, Jammu, 180001, India	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044017966&doi=10.1021%2facsc.chembio.7b00875&partnerID=40&md5=a8f1351f503bd2cfde226654ec558259
1375	4-aryl/heteroaryl-4H-fused pyrans as anti-proliferative agents: Design, synthesis and biological evaluation	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Sri Sai College of Pharmacy, Manawala Amritsar Punjab 143005, India; Indian Institute of Integrative Medicine, Jammu, 18001, India; Department of Pharmaceutical Chemistry, M.M.College of Pharmacy, Maharishi Markandeshwar University, Mullana, Haryana 133203, India; Rajendra Institute of Technology and Science, Sirsa, Haryana 125055, India	11	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049011133&doi=10.2174%2f1871520617666170918143911&partnerID=40&md5=45e1eaac49e628b011473267f256cbd5
1376	Absorption Characterization of Mn-Zr-Substituted La-Sr Hexaferrite Using Open-Circuit and Short-Circuit Approaches in 8.2–18 GHz Frequency Range	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032022802&doi=10.1007%2fs11664-017-5855-4&partnerID=40&md5=30a7f3c193ac64979e1636e6d0b00dc5
1377	Schizophyllum commune induced genotoxic and cytotoxic effects in <i>Spodoptera litura</i>	Department of Zoology, Guru Nanak Dev University, Amritsar, India; Departments of Microbiology, Guru Nanak Dev University, Amritsar, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, India; Department Cum National Centre for Human Genome Studies and Research, Panjab University Chandigarh, Chandigarh, India	7	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044244742&doi=10.1038%2fs41598-018-22919-0&partnerID=40&md5=313772cf45661397c58533633a49ec42

1378	Potential ecological risks of metal(loid)s in riverine floodplain soils	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; CSIRO Land and Water, Environmental Contaminant Mitigation and Biotechnology Program, Waite Campus, Waite RdSA 5064, Australia; Department of Zoology, Khalsa College AmritsarPunjab, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India	8	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052652165&doi=10.1016%2fj.ecoenv.2018.08.032&partnerID=40&md5=f179f44db713db6645b4cb9467651708
1379	Microstructural (self-assembly) and optical based discrimination of Hg2+, CN– and Hg(CN)2 ion-pair; Hg2+ promoted-ESIPT assisted guanylation of thiourea	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemical Sciences, IK Gujral Punjab Technical University, Kapurthala, 144601, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047627347&doi=10.1016%2fj.snb.2018.05.104&partnerID=40&md5=263b2bfe848f372ade1ae166cb615ef6
1380	Thermoluminescence of Li2B4O7:Cu phosphor exposed to proton beam for dosimetric application	P.G. Department of Physics & Electronics, DAV College, Amritsar, Punjab 143001, India; Department of Physics, R.T.M. Nagpur University, Nagpur, 440033, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143001, India; Department of Physics, Sri Venkateswara College, Benito Juarez Road, New Delhi, 11002, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047178599&doi=10.1016%2fj.radmeas.2018.05.002&partnerID=40&md5=e29ef3421f7b847eb547ad929afb968c
1381	Variation in composition, protein and pasting characteristics of different pigmented and non pigmented rice (Oryza sativa L.) grown in Indian Himalayan region	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051705901&doi=10.1007%2fs13197-018-3361-1&partnerID=40&md5=3a8e275ff6438fb7dad0acada0221eda
1382	Benzothiazole based Schiff-base-A mechanistically discrete sensor for HSO4– and I–: Application to bioimaging and vapour phase sensing of ethyl acetate	Department of Chemistry, UGC-Centre of Advanced Study-II, Guru Nanak Dev University, Amritsar, 143005, India; Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046020210&doi=10.1016%2fj.snb.2018.04.072&partnerID=40&md5=d7a2cc73404eddc19a3b6f0614b6dd0a
1383	Conductivity relaxation and oxygen vacancies-related electron hopping mechanism in Pb 1-x La x/2 Sm x/2 Ti 1-x Fe x O 3 solid solutions	Multifunctional Materials Laboratory, Physics Department, Guru Nanak Dev University, Amritsar, India; Ceramic Laboratory, Laser Materials Development and Devices Division, Raja Ramanna Centre for AdvancedTechnology, Indore, India	8	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050366166&doi=10.1080%2f21870764.2018.1489941&partnerID=40&md5=11eec924b2f4a62a91cd1dce11288335
1384	Indolyl-isoxazolidines attenuate LPS-stimulated pro-inflammatory cytokines and increase survival in a mouse model of sepsis: Identification of potent lead	Bio-Organic and Photochemistry Laboratory, Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143 005, India; Vice Chancellor, Maharaja Ranjit Singh Punjab Technical University, Badal Road, Bathinda, India; Cancer Pharmacology Division, Indian Institute of Integrative Medicine (CSIR), Jammu, 180001, India	7	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045341424&doi=10.1016%2fj.ejmech.2018.04.004&partnerID=40&md5=23c3b1f1c4f40c64586573b63cad049b
1385	Alkylated/aminated nitroimidazoles and nitroimidazole-7-chloroquinoline conjugates: Synthesis and anti-mycobacterial evaluation	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Institut de Recherche en Infectiologie de Montpellier (IRIM), CNRS, UMR 9004, Université de Montpellier, France; INSERM, IRIM, Montpellier, 34293, France	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85043755805&doi=10.1016%2fj.bmcl.2018.03.021&partnerID=40&md5=b c25d7717d7f6893e2f92fe931ba56a9
1386	Diversity in protein profiling, pasting, empirical and dynamic dough rheological properties of meal from different durum wheat accessions	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; National Bureau of Plant Genetic Resources Regional Station, Phagli, Shimla, 171004, India	6	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041183456&doi=10.1007%2fs13197-018-3036-y&partnerID=40&md5=5d40e848d7d12a0709dcfae90c526ad2
1387	In Vitro Evaluation and Statistical Optimization of Antimicrobial Activity of Prunus cerasoides Stem Bark	Microbial Technology Laboratory, Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028840886&doi=10.1007%2fs12010-017-2571-8&partnerID=40&md5=4933b5a622d5c9ed9927301eee4aa3ec
1388	Transition-Metal-Catalyzed [3+2+2] Cycloaddition Reactions	Department of Chemical Sciences, IKG Punjab Technical University, Kapurthala, Punjab 144603, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85038607807&doi=10.1002%2fejoc.201701116&partnerID=40&md5=bdf0377aba2e1a327726cedec6d6471b
1389	Synthesis, characterization and anticancer evaluation of transplatin derivatives with heterocyclic thiones	Department of Chemistry, King Fahd University of Petroleum and Minerals, Dhahran, 31261, Saudi Arabia; Center of Research Excellence in Nanotechnology, King Fahd University of Petroleum & Minerals, Dhahran, 31261, Saudi Arabia; Department of Chemistry, College of Sciences and Humanities, Prince Sattam bin Abdulaziz University, Al-Kharj, 11942, Saudi Arabia; Pharmacology and Toxicology Department, College of Pharmacy, King Saud University, P.O. Box No. 2457, Riyadh, 11451, Saudi Arabia; Department of Molecular, Biology & Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India	9	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040012333&doi=10.1016%2fj.poly.2017.12.016&partnerID=40&md5=e2bc82aba87fec01f5953eed21697e0

1390	Fluorometric differential detection of Zn ²⁺ and Cu ²⁺ by picolylamine appended pyrimidinone-based receptor: Application in mimicking TRANSFER and INH logic gate	Department of Chemistry, UGC-Centre of Advance Studies-II, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemistry, Trinity College, Jalandhar, Punjab 144009, India; School of Chemistry and Physics, University of KwaZulu Natal, P/Bag X54001, Westville, Durban, 4000, South Africa; Department of Chemical Sciences, IK Gujral Punjab Technical University, Kapurthala, Punjab 144 601, India	7	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85034440059&doi=10.1016%2fj.ipphotochem.2017.11.024&partnerID=40&md5=1577115019544caf2639f36756e0a62c
1391	Deciphering the complexation process of a fluoroquinolone antibiotic, levofloxacin, with bovine serum albumin in the presence of additives	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; School of Pharmaceutical Science and Technology, Tianjin University, Tianjin, 300072, China	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031087968&doi=10.1016%2fj.saa.2017.10.017&partnerID=40&md5=e9d4c1890a39eb05c76eee3fd54e3217
1392	Journey Heading towards Enantioselective Synthesis Assisted by Organocatalysis	Department of Chemistry, U.G.C. Centre of Advanced Studies in Chemistry, Guru Nanak Dev University, Amritsar, India; Institute of Organic Chemistry, RWTH Aachen University, Germany, Germany; Department of Chemistry, University of Texas, Dallas, United States	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042097207&doi=10.1002%2ftr.201700020&partnerID=40&md5=db20612fd014cab1b3286de06ca8aac3
1393	Physico-chemical, hydration, cooking, textural and pasting properties of different adzuki bean (<i>Vigna angularis</i>) accessions	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Institute of Home Economics, University of Delhi, New Delhi, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040317790&doi=10.1007%2fs13197-017-2994-9&partnerID=40&md5=2b03f20e9045752590618d45dda3c312
1394	Internet of Things-based student performance evaluation framework	Computer Science and Engineering Department, Guru Nanak Dev University, Gurdaspur, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85035803528&doi=10.1080%2f0144929X.2017.1407824&partnerID=40&md5=e5cc06010e537c92420f23733e5cd12a
1395	Dust ion acoustic freak waves in a plasma with two temperature electrons featuring Tsallis distribution	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, Lyallpur Khalsa College, Jalandhar, 144001, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031822821&doi=10.1016%2fj.physa.2017.10.004&partnerID=40&md5=5f76dabfadc70cc5b9ae497f97d8407a
1396	Ecological risk assessment of metals in roadside agricultural soils: A modified approach	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Punjab Remote Sensing Centre, Ludhiana, Punjab, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India; Department of Zoology, Khalsa College Amritsar Punjab, India	9	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030867392&doi=10.1080%2f10807039.2017.1373328&partnerID=40&md5=f087addc8ff9b2fc6fbb63930b2eef8f
1397	An Advanced Conceptual Diagnostic Healthcare Framework for Diabetes and Cardiovascular Disorders	DAV University, Jalandhar, India; Guru Nanak Dev University, Amritsar, India	3	2018	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066503312&doi=10.4108%2fai.19-6-2018.154828&partnerID=40&md5=9e6f62d2b431c37fc35237deb99f22bc
1398	Social media buzz created by #nanotechnology: Insights from Twitter analytics	Guru Nanak Dev University, Department of Computer Engineering and Technology, GT Road, Amritsar, Punjab 143005, India; Guru Nanak Dev University, Department of Computer Science, GT Road, Amritsar, Punjab, India; Guru Nanak Dev University, Department of Electronics Technology, Amritsar, Punjab, India; Khalsa College of Management and Technology, Department of Computer Applications, Amritsar, Punjab, India	5	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056159538&doi=10.1515%2fntrev-2018-0053&partnerID=40&md5=ec5f5435406af8e7561cff6097bc01df
1399	Nonplanar Electron - Acoustic Shock Waves with Superthermal Hot Electrons	I. K. Gujral Punjab Technical University, Kapurthala, 144601, India; Sikh National College, Banga, 144505, India; Department of Applied Science, Lyallpur Khalsa College of Engineering, Jalandhar, 144001, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143 005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056100614&doi=10.1007%2fs13538-018-0602-8&partnerID=40&md5=1eb60f772a6c22aee2b3bdc86180fc2c
1400	Applications of rice protein in nanomaterials synthesis, nanocolloids of rice protein, and bioapplicability	Department of Natural and Applied Sciences, University of Wisconsin - Green Bay, 2420 Nicolet Drive, Green Bay, WI 54311-7001, United States; Nanotechnology Research Laboratory, College of North Atlantic, Labrador City, NL A2V 2K7, Canada; Department of Chemistry, B.B.K. D.A.V. College for Women, Amritsar, Punjab 143005, India; Department of Chemistry, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab 144011, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	7	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052299184&doi=10.1016%2fj.ijbiomac.2018.08.101&partnerID=40&md5=c505f225bc5ce56bd0719e7290f177f6

1401	Optimization of Ni ²⁺ /Ni ³⁺ ratio in reduced graphene oxide/nickel oxide nanohybrids for platinum free dye sensitized solar cells	Material Science Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Satyam Institute of Engineering and Technology, Amritsar, 143107, India; Thin Film Devices Section, Technical Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; CSIR-National Physical Laboratory, New Delhi, 110012, India	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050961753&doi=10.1016%2fj.jpcc.2018.07.019&partnerID=40&md5=be7db4ce9470b8bf65765a95ebde8f29
1402	Emerging Trends and Tools in Transgenic Plant Technology for Phytoremediation of Toxic Metals and Metalloids	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Botany, DAV University, Sarmastpur, Jalandhar, Punjab, India; Department of Botany, School of Life Sciences, Satellite Campus Kargil, University of Kashmir, Kargil, Jammu & Kashmir, India; Department of Chemistry, Lovely Professional University, Jalandhar, Phagwara, Punjab, India	8	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081900089&doi=10.1016%2fB978-0-12-814389-6.00004-3&partnerID=40&md5=a7cfcbb5c5492023b1755fbc5fce12f
1403	SNA based QoS and reliability in fog and cloud framework	Department of Computer Science & Engineering, Guru Nanak Dev University Regional Campus Gurdaspur, Gurdaspur, India	1	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041129644&doi=10.1007%2fs11280-018-0525-x&partnerID=40&md5=2ff054f1d2e4a7b0e717cf18cc46e73
1404	A novel mutation in the PRPF31 in a North Indian adRP family with incomplete penetrance	Department of Human Genetics, Guru Nanak Dev University (GNDU), Amritsar, Punjab 143005, India; Dr. Daljit Singh Eye Hospital, Amritsar, Punjab, India	5	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051715729&doi=10.1007%2fs10633-018-9654-x&partnerID=40&md5=94d1e526e01ad98253b84e8a901ab0f3
1405	Spermine detection from urine and blood serum using ionic self-assembly of benzimidazolium based dipod and dodecylsulfate	Department of Chemistry, Centre of Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India; School of Chemistry and Biochemistry, Thapar University, Patiala, 147004, India; Drug Discovery Research Center, Translational Health Sciences and Technology Institute, Faridabad, 121001, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047255883&doi=10.1016%2fj.snb.2018.05.050&partnerID=40&md5=68bd708b0f1a7b43e3e8da750c89429b
1406	Usage based upon reasons: the case of electronic banking services in India	Guru Nanak Dev University, Amritsar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047317736&doi=10.1108%2fJIBM-03-2017-0060&partnerID=40&md5=25d677ae183bb122ebc1aa0440b01439
1407	Chemical characteristics of fine and coarse particles during wintertime over two urban cities in north india	School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, 110067, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143001, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055039882&doi=10.4209%2faagr.2018.02.0051&partnerID=40&md5=05dba2acc5906da6f7f6f516cc8665e4
1408	Characterization of interactions between β -lactoglobulin with surface active ionic liquids in aqueous medium	Department of Chemistry, UGC-Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85043463511&doi=10.1016%2fj.molliq.2018.03.020&partnerID=40&md5=1a10eabdcee5a17500dbb087dcf94f2a
1409	Study of the structural and magnetic phase-transitions and multiferroic properties in BiFeO ₃ -Ba _{0.95} Ca _{0.05} TiO ₃ solid solutions	Multifunctional Materials Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041925902&doi=10.1016%2fj.materresbull.2018.02.012&partnerID=40&md5=50493fae68b49b6bf769b0da53a48655
1410	Enhancement of sensor response of as fabricated SWCNT sensor with gold decorated nanoparticles	Department of Physics, Jamia Millia Islamia (A Central University), New Delhi, India; Centre for Nanoscience and Nanotechnology, Jamia Millia Islamia, New Delhi, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	7	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044515330&doi=10.1016%2fj.sna.2018.02.038&partnerID=40&md5=f922120368c0c2a4980c0fe2bae3b000
1411	Quadruple-signaling (PET, ICT, ESIPT, –C[dbnd]N– rotation) mechanism-based dual chemosensor for detection of Cu ²⁺ and Zn ²⁺ ions: TRANSFER, INH and complimentary OR/NOR logic circuits	Department of Chemistry, UGC-Centre of Advance Studies-II, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemical Sciences, IK Gujral Punjab Technical University, Kapurthala, Punjab 144 601, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042688567&doi=10.1016%2fj.iphotocem.2018.02.030&partnerID=40&md5=ae38e6f1d4e5b1ff3f4b7016b3751870
1412	Magnetosonic cnoidal waves and solitons in a magnetized dusty plasma	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044950273&doi=10.1063%2f1.5011948&partnerID=40&md5=e204e2503345a4a1e13c862a62ecab05
1413	Spermidine induced aggregation of terphenyl derivative: An efficient probe for detection of spermidine in living cells	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85036666985&doi=10.1016%2fj.snb.2017.11.123&partnerID=40&md5=4ac47df0e5c5794563d22b70c2c32b80
1414	A comprehensive in Silico analysis of regulatory SNPs of Human CLEC7A gene and its validation as genotypic and phenotypic disease marker in Recurrent Vulvovaginal infections	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India; Department of Gynaecology and Obstetrics, Bebe Nanki Mother and Child Care Centre, Government Medical College, Amritsar, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044366227&doi=10.3389%2ffcimb.2018.00065&partnerID=40&md5=57fc8652e3edf433109c629be55d888e

1415	Estimation of indoor radon, thoron and their decay products' concentrations along with annual inhalation dose in dwellings of Punjab, India	Department of Physics, Guru Nanak Dev University, Amritsar, India; Radiological Physics and Advisory Division, Bhabha Atomic Research Centre, Mumbai, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85043573141&doi=10.1177%2f1420326X16676305&partnerID=40&md5=7a6085d45185e62bc2c72079d3886eaa
1416	CE-GMS: A cloud IoT-enabled grocery management system	Computer Science, GNDU Regional Campus, Jalandhar, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041455214&doi=10.1016%2fj.elerap.2018.01.005&partnerID=40&md5=c3b3ba0c368755d4cec837c4898cc056
1417	Enantioselective 1,4-Michael addition reaction of pyrazolin-5-one derivatives with 2-enoylpyridines catalyzed by: Cinchona derived squaramides	Department of Chemistry, U.G.C. Centre of Advance Studies in Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Center of Advanced Studies in Chemistry, Panjab University, Chandigarh, 160014, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053623152&doi=10.1039%2fc8ob01588k&partnerID=40&md5=517b4b1ec1dfcdfc04fbf4493edf01f8
1418	Exploring organic photosensitizers based on hemicyanine derivatives: a sustainable approach for preparation of amide linkages	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053015972&doi=10.1039%2fc8RA06232C&partnerID=40&md5=00b1d37fd3119dee250a3d418499c4d3
1419	Synthesis, structures and antimicrobial activity of copper derivatives of N -substituted imidazolidine-2-thiones: Unusual bio-activity against Staphylococcus epidermidis and Enterococcus faecalis	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143 005, India; Departamento de Quimica Inorganica, Facultad de Farmacia, Universidad de Santiago, Santiago, 15782, Spain; Department of Chemistry, Keene State College, Keene, NH 03435-2001, United States	8	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048422242&doi=10.1039%2fc8nj00206a&partnerID=40&md5=5d4f560dbd12d1f911a100e72a9351cc
1420	PHISTc protein family members localize to different subcellular organelles and bind Plasmodium falciparum major virulence factor PfEMP-1	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India; National Institute of Malaria Research, New Delhi, India; Institute of Nano Science and Technology, Mohali, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, India	8	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040805548&doi=10.1111%2ffebbs.14340&partnerID=40&md5=e2f93e179a21ebe759440062b5a77af5
1421	Investigation of ethanol gas sensing properties of Dy-doped SnO2 nanostructures	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030858385&doi=10.1007%2fs10854-017-7982-3&partnerID=40&md5=705702e0faef15a50102b7486308208c
1422	Microbial production of dicarboxylic acids from edible plants and milk using GC-MS	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botany, DAV University, Sarmastpur, Jalandhar, Punjab 144012, India	7	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064044490&doi=10.1186%2fs40543-018-0154-0&partnerID=40&md5=ca7d0907e861a3f40dd21d93912cfc2b
1423	In vitro propagation, clonal fidelity and phytochemical analysis of Rhodiola imbricata Edgew: a rare trans-Himalayan medicinal plant	Department of Biotechnology, Defence Institute of High Altitude Research, Defence Research & Development Organization, Leh, 194101, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	10	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053434198&doi=10.1007%2fs11240-018-1482-x&partnerID=40&md5=9cc1c37325ffe5509d86c8bb00970ae7
1424	Role of compatible solutes in enhancing antioxidative defense in plants exposed to metal toxicity	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Botany, DAV University, Jalandhar, Punjab, India	8	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071091845&doi=10.1007%2f978-981-13-2242-6-7&partnerID=40&md5=f40d3cebe558a27e21 added8a2b16f9bc2
1425	Genetic association of ADIPOQ gene variants (-3971A>G and +276G>T) with obesity and metabolic syndrome in north Indian punjabi population	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054056205&doi=10.1371%2fjournal.pone.0204502&partnerID=40&md5=9360f18fea2ba26fc6a3c42349dbda0b
1426	Performance analysis of Wi-Fi shaped SIW antennas	Department of Electronics & Communication Engineering, Guru Nanak Dev University, Regional Campus GurdaspurPunjab 143521, India; Department of Physics & Electronics, University of Jammu, Jammu, J&K 180006, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049771467&doi=10.1016%2fj.aeue.2018.07.002&partnerID=40&md5=a3d29a6cdfcb2a672a414a48faccf0a5
1427	Diazonium chemistry for making highly selective and sensitive CNT-Neutral Red hybrid-based chemiresistive acetone sensors	Université de Tunis - El Manar, Faculté des Sciences de Tunis, Département de Chimie, Laboratoire de Chimie (Bio) Organique, Structurale et de Polymères - Synthèse et Etudes Physicochimiques (LR99ES14), Campus Universitaire, El Manar, 2092, Tunisia; Université Paris Est, ICMPE (UMR7182), CNRS, UPEC, Thiais, F-94320, France; Departments of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Laboratoire de Conception des Capteurs Chimiques et Biologiques, LC3B, Physique, Département MAQIM. Ecole SITI, CNAM, Rue Conté, Paris, 75003, France; Université; Paris Diderot, Sorbonne Paris Cité, ITODYS, UMR 7086, CNRS, Paris, F-75013, France	8	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049449900&doi=10.1016%2fj.vacuum.2018.07.004&partnerID=40&md5=76e662d902cd876a7a1a13346b2f9af6

1428	Rational modification of a lead molecule: Improving the antifungal activity of indole – triazole – amino acid conjugates	UGC Sponsored Centre for Advanced Studies, Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Pharmacy, Birla Institute of Technology and Science, Pilani Campus, Vidya Vihar, Pilani, 333031, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India	7	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048795570&doi=10.1016%2fj.ejmech.2018.06.039&partnerID=40&md5=e8dc982a00f9ca027bfe82e489041fe4
1429	Effect of Ion Beam on Low-Frequency Cnoidal Waves in a Non-Maxwellian Dusty Plasma	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044964747&doi=10.1109%2fTFS.2017.2760099&partnerID=40&md5=120e50a6a6b4fd9fceea047952e795b
1430	Effect of electron temperature on small-amplitude electron acoustic solitary waves in non-planar geometry	I. K. Gujral Punjab Technical University, Kapurthala, 144 601, India; Department of Applied Science, Lyallpur Khalsa College of Engineering, Jalandhar, 144 001, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143 005, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85043990526&doi=10.1007%2fs12036-018-9519-4&partnerID=40&md5=2946b81aff4167b560c3e58bf6fded7c
1431	Supramolecular Chemistry: From Molecule to Molecular Machines	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, India	1	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046538698&doi=10.1007%2fs12045-018-0617-z&partnerID=40&md5=dad18fbf2124ed6a195e8cf08e34f2d0
1432	Conductivity relaxation in Pb0.9Sm0.10Zr0.40STi0.495Fe0.10O3 solid solution	Multifunctional Materials Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; DAV College, Department of Physics, Abohar, Punjab 152116, India	5	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85035786050&doi=10.1016%2fj.jallcom.2017.11.254&partnerID=40&md5=00b6e823f921bbd5850dcef73b6975d7
1433	Structural study of glasses in the system B2O3-Bi2O3-La2O3-WO3	Institute of General and Inorganic Chemistry, Bulgarian Academy of Sciences, G. Bonchev, str. bld. 11, Sofia, 1113, Bulgaria; Guru Nanak Dev University, Amritsar, Punjab, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032269911&doi=10.1016%2fj.inoncrsol.2017.10.041&partnerID=40&md5=36278838e9e03db86d4f47b5b4c8f129
1434	Rational modification of semaxanib and sunitinib for developing a tumor growth inhibitor targeting ATP binding site of tyrosine kinase	Department of Chemistry, UGC Sponsored Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85036563757&doi=10.1016%2fj.bmcl.2017.11.049&partnerID=40&md5=c691cc041cad3a82d33b5e6f54148e44
1435	Luminescent micellar nano-interfaces of surface active ionic liquid for the selective recognition of ADP in aqueous medium	Department of Chemistry, University Grants Commission (UGC), Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049507994&doi=10.1039%2fc8cc02985g&partnerID=40&md5=b91e326d8fa02e8d053b6596485b7151
1436	Influence of Twitter on prediction of election results	Department of Computer Science, Guru Nanak Dev University, Amritsar, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042366595&doi=10.1007%2f978-981-10-6875-1_65&partnerID=40&md5=b821ded91e81e5fce9b83b900ddab779
1437	Landau damping of dust acoustic solitary waves in nonthermal plasmas	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; SUPA, Department of Physics, University of Strathclyde, Glasgow, G4 ONG, United Kingdom	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040594614&doi=10.1063%2f1.5011005&partnerID=40&md5=e949ef9d0d1d8b261a36cd111da62439
1438	Machining performance investigation of AISI 304 austenitic stainless steel under different turning environments	Department of Mechanical Engineering, Punjabi University Patiala, India; Department of Mechanical Engineering, S S Giri, Panjab University Regional Center, Hoshiarpur, Punjab, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059642193&partnerID=40&md5=688e9eded7e71f03f2d1084b9409f29c
1439	Multivariate analysis on the distribution of elements in plants	Department of Botany, DAV University, Sarmastpur, Jalandhar, Punjab 144012, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; State Key Laboratory of Subtropical Silviculture, Zhejiang A & F University, Hangzhou, 311300, China	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055058351&doi=10.1007%2fs11738-018-2765-x&partnerID=40&md5=b62d23c90e87d083f539d08c1cf33e44
1440	TDRM: Tensor-based data representation and mining for healthcare data in cloud computing environments	Cloud Computing and Distributed Systems (CLOUDS) Laboratory, School of Computing and Information Systems, The University of Melbourne, Parkville, Australia; Department of Computer Science and Engineering, Guru Nanak Dev University, Gurdaspur, Punjab, India; Department of Computer Science and Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University, Patiala, Punjab, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031927995&doi=10.1007%2fs11227-017-2163-y&partnerID=40&md5=aaf1e1b8e12ad06618b2a1c22ec2fc26
1441	Antiplasmodial Medicinal Plants: A Literature Review on Efficacy, Selectivity and Phytochemistry of Crude Plant Extracts	P.G. Department of Chemistry, Khalsa College, Amritsar, Punjab, India; Pharmacognosy and Phytochemistry Laboratories, Shaheed Bhagat Singh College of Pharmacy, Patti, Tarn Taran, Punjab, India; Faculty of Pharmaceutical Sciences, IKG Punjab Technical University Punjab, India; Department of Pharmacognosy, Khalsa College of Pharmacy, Amritsar, Punjab, India; Khalsa College of Pharmacy, Amritsar, Punjab, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062417053&doi=10.1080%2f2311866.2018.1526651&partnerID=40&md5=90c32e1f0233a669e08b0097b7b69ce7

1442	Density-functional study of hydrogen cyanide adsorption on silicene nanoribbons	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, 144007, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051693048&doi=10.1007%2fs00894-018-3782-9&partnerID=40&md5=6c44e3cf3bed3ff1da7b8db964e31a77
1443	In silico insights on diverse interacting partners and phosphorylation sites of respiratory burst oxidase homolog (Rboh) gene families from Arabidopsis and rice	Guru Nanak Dev University (GNDU), Department of Biotechnology, Amritsar, Punjab, 143005, India; University of Tuebingen, Quantitative Biology Center (QBC), Tuebingen, 72076, Germany	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051566235&doi=10.1186%2fs12870-018-1378-2&partnerID=40&md5=a2eda027293e4cfe8cd5b34282123726
1444	Green exfoliation of graphene nanosheets based on freezing induced volumetric expansion of carbonated water	Department of Physics, Guru Nanak Dev University, G.T Road, Amritsar, 143005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050976412&doi=10.1088%2f2053-1591%2faad159&partnerID=40&md5=de8df2bc65cb5036d5a8366ab35050c2
1445	Analysis of Genotoxicity of Agricultural Soils and Metal (Fe, Mn, and Zn) Accumulation in Crops	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049589255&doi=10.1007%2fs41742-018-0103-1&partnerID=40&md5=f7486d286fa716d9fafa9161c883e0bb
1446	Estimation of arsenic, manganese and iron in mustard seeds, maize grains, groundwater and associated human health risks in Ropar wetland, Punjab, India, and its adjoining areas	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048277323&doi=10.1007%2fs10661-018-6763-7&partnerID=40&md5=dd466fa0964da64ecc8cbf1f964dfd6e
1447	Synthesis, structures and antimicrobial activity of 5-nitro-salicylaldehyde-thiosemicarbazones of zinc(II) coordinated to substituted bipyridines/phenanthrolines	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemistry, Keene State College, Keene, NH 03435, United States	9	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045182623&doi=10.1016%2fj.poly.2018.03.027&partnerID=40&md5=ef29dc91b921e88c6407cecc7296f709
1448	Sustainability reporting: an empirical evaluation of emerging and developed economies	Department of Commerce, Guru Nanak Dev University, Amritsar, India; Department of Commerce, BBK DAV College for Women, Amritsar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078826133&doi=10.1108%2fJGR-01-2018-0003&partnerID=40&md5=9854b569d55496bc5681bc7b2350104a
1449	Short-range structure of barium tellurite glasses and its correlation with stress-optic response	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Centre for Energy Research, Konkoly-Thege st. 29-33, Budapest, 1121, Hungary	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049533547&doi=10.1088%2f2053-1591%2faac635&partnerID=40&md5=827e1906f69128f6f86d6b58d6b3bc42
1450	Progression of conventional hepatic cell culture models to bioengineered HepG2 cells for evaluation of herbal bioactivities	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Cancer Biology Division, IIT Research Institute, Chicago, IL 60616, United States; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044714061&doi=10.1007%2fs10529-018-2547-y&partnerID=40&md5=1e87e9270f48c634284dc10e48fa7822
1451	Evaluation of the gamma radiation shielding parameters of bismuth modified quaternary glass system	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, Guru Nanak Dev University, College Verka, Amritsar, Punjab, 143501, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047369452&doi=10.1063%2f1.5032878&partnerID=40&md5=896a9ca25d63061626f639bf3ce9533e
1452	Characteristic study of cold sprayed N06601 superalloy surface	Guru Nanak Dev University, Regional Campus, Jalandhar, India; S.B.S.C.E.T, Ferozepur, India; I.K.G. P.T.U, Jalandhar, India; ASB Industries Inc., Barberton, United States	6	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018177559&doi=10.1080%2f02670844.2017.1312220&partnerID=40&md5=0564d54b9da85269e83a49420b6f225f
1453	Spectrophotometric determination of triclosan based on diazotization reaction: Response surface optimization using box-behnken design	Department of Chemistry, Center for Advanced Studies, Guru Nanak Dev University, Amritsar, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, India; Department of Chemistry, Manav Rachna International University, Faridabad, India	5	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047270998&doi=10.2166%2fst.2018.123&partnerID=40&md5=3f1b04ef0350abfe203a5a518c0577bd
1454	Correction to: Selenium mitigates cadmium-induced oxidative stress in tomato (Solanum lycopersicum L.) plants by modulating chlorophyll fluorescence, osmolyte accumulation, and antioxidant system (Protoplasma, (2018), 255, 2, (459-469), 10.1007/s00709-017-1162-4)	Botany and Microbiology Department, College of Science, King Saud University, P. O. Box. 2460, Riyadh, 11451, Saudi Arabia; School of Studies in Botany Jiwaji University, Gwalior, MP 474011, India; Biology Department, College of Science and Humanities, Prince Sattam bin Abdulaziz University (PSAU), Alkharij, Saudi Arabia; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Botany, S.P. College, Srinagar, Jammu and Kashmir 190001, India	6	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042783842&doi=10.1007%2fs00709-018-1231-3&partnerID=40&md5=127d3a30cb1866e2a4faa7254d129cd6
1455	What and how to communicate about a corporate brand with the consumers: An exploratory study	University Business School, Guru Nanak Dev University, Amritsar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84921795506&doi=10.1080%2f13527266.2014.995206&partnerID=40&md5=23de68f1235478aa9febbed656d530d2

1456	Modulatory role of GSTT1 and GSTM1 in Punjabi agricultural workers exposed to pesticides	Department of Human Genetics, Guru Nanak Dev University, Amritsar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042092028&doi=10.1007%2fs11356-018-1459-7&partnerID=40&md5=3afe1e62eb2245912f325a41ab6feddf
1457	Effect of incorporation of flaxseed to wheat rusk: Antioxidant, nutritional, sensory characteristics, and in vitro DNA damage protection activity	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Biotechnology, Chaudhary Devi Lal University, Sirsa, Haryana, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041036639&doi=10.1111%2fjfp.13585&partnerID=40&md5=5e2a30d38b09da3678a0255e44694d11
1458	Supramolecular modification of Carbon Nanofibers with Poly(diallyl dimethylammonium) chloride and Triton X-100 for electrochemical application	Dr. Shanti Swarup Bhatnagar University Institute of Chemical Engineering and Technology (formerly Department of Chemical Engineering & Technology), Panjab University, Chandigarh, 160014, India; Department of Green Chemical Engineering, College of Engineering, Sangmyung University, Cheonan, 31066, South Korea; Centre for Nanoscience & Nanotechnology, University Institute for Emerging Areas in Science and Technology, Panjab University, Chandigarh, 160014, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	5	2018	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042923210&doi=10.1016%2fj.ijhydene.2018.02.075&partnerID=40&md5=0c2a6b64fb4db56d08d040122ed2cc4d
1459	Effect of decreasing Mg2+ and Zr4+ substitution on the structural, ferroelectric and magnetic properties of BF-PT solid solutions	Multifunctional Material Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85039165238&doi=10.1016%2fj.mtcomm.2017.12.010&partnerID=40&md5=22f6c2662c246c0d256361f3f79f7e04
1460	Dust Ion-Acoustic Shock Waves in a Multicomponent Magnetorotating Plasma	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041530449&doi=10.1515%2fzna-2017-0397&partnerID=40&md5=00e8a600a99a3dba8acc1291bf82b6fd
1461	Analaysis of diseases in fruits using image processing techniques	Department of Computer Engg. and Technology, Guru Nanank Dev University, Amritsar, 143001, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046631441&doi=10.1109%2fICOEI.2017.8300913&partnerID=40&md5=ed7cdab555af8873bdc13af1ead8a794
1462	An effective framework for finding similar cases of dengue from audio and text data using domain thesaurus and case base reasoning	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus- Gurdaspur, Gurdaspur, Punjab, India; Computer Science and Engineering Department, Guru Nanak Dev Engineering College, Ludhiana, Punjab, India; Department of Science and Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University, Rajpura, Punjab, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85011260736&doi=10.1080%2f17517575.2017.1287429&partnerID=40&md5=fb4251319902cd33b446e47e51f67769
1463	Response surface methodology for investigating structure–function relationship of grain legume proteins	Faculty of Science, The University of Maroua, P.O. Box 814, Maroua, Cameroon; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; Department of Biochemistry, University of Yaoundé I, P.O. Box 812, Yaoundé, Cameroon	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041756490&doi=10.1111%2fjfp.13524&partnerID=40&md5=f8d832f70f7ee4dd6c689fad06f19c2c
1464	Characteristic study of N07718 superalloy surface prepared by cold spray	Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India; Shaheed Bhagat Singh State Technical Campus, Ferozepur, Punjab, India; I.K.G.P.T.U., Jalandhar, Punjab, India; ASB Industries Inc., Lambet, Barberton, OH, United States	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85010002019&doi=10.1080%2f10426914.2016.1269922&partnerID=40&md5=1fe0aaacbedb1abb136e370756835b26
1465	Development of validated high-temperature reverse-phase UHPLC-PDA analytical method for simultaneous analysis of five natural isothiocyanates in cruciferous vegetables	Department of Botanical & Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85024368358&doi=10.1016%2fj.foodchem.2017.07.059&partnerID=40&md5=67a7a8714d0984ddbed21e5b41599297
1466	Multi-residue pesticides analysis in water samples using reverse phase high performance liquid chromatography (RP-HPLC)	Department of Botanical & Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049778378&doi=10.1016%2fj.mex.2018.07.005&partnerID=40&md5=45b16ae06e713ef701ebc04e723e9019
1467	Security in IoT-based smart grid through quantum key distribution	Department of Computer Science & Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031430791&doi=10.1007%2f978-981-10-3773-3_51&partnerID=40&md5=6551e957f484fe09787b7b96348a708d
1468	An intelligent framework for workouts in gymnasium: M-Health perspective	Guru Nanak Dev University, Regional Campus, Gurdaspur, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85025694176&doi=10.1016%2fj.compeleceng.2017.07.018&partnerID=40&md5=f48860b83abe3433dcc7ab0522632080
1469	Probing the binding ability of vitamin B1 with bovine serum albumin: Calorimetric, light scattering, spectroscopic and volumetric studies	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050491984&doi=10.1016%2fj.jct.2018.07.009&partnerID=40&md5=48945f29a00e2009e0634a71cfe0ce27

1470	Predictive analytics of sensor data based on supervised machine learning algorithms	Department of CET, Guru Nanak Dev University, India; Department of CSE, MIET, Jammu, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057735003&doi=10.1109%2fICNGCIS.2017.12&partnerID=40&md5=d488a7242937a399093ecbecfbc7f5fe
1471	Comparison of different reflectance indices for vegetation analysis using Landsat-TM data	Department of Botanical & Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botany, DAV University, Jalandhar, Punjab 144012, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055649007&doi=10.1016%2fj.rsase.2018.10.013&partnerID=40&md5=c4464ae483f343ed550c6c4255a0d9a1
1472	Fractionation and grain hardness effect on protein profiling, pasting and rheological properties of flours from medium-hard and extraordinarily soft wheat varieties	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Division of Genetics, Indian Agricultural Research Institute, New Delhi, 110012, India	7	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053807171&doi=10.1007%2fs13197-018-3433-2&partnerID=40&md5=e2e5ed7d17e03be872d934b1c442cfeb
1473	Nature and Hierarchy of Hydrogen-Bonding Interactions in Binary Complexes of Azoles with Water and Hydrogen Peroxide	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054510974&doi=10.1021%2facsomega.8b01523&partnerID=40&md5=1232a1bf725f4397fee7536c04d9a1f7
1474	Graphene aerogel based room temperature chemiresistive detection of hydrogen peroxide: A key explosive ingredient	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053447716&doi=10.1016%2fj.sna.2018.09.033&partnerID=40&md5=2d02752cf96124d798425887524e5dfa
1475	Correlation between multiferroic properties and processing parameters in NdFeO ₃ -PbTiO ₃ solid solutions	Multifunctional Materials Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Physics, Maharshi Dayanand University, Rohtak, Haryana 124001, India; UGC-DAE Consortium for Scientific Research, R-5 Shed, BARC, Mumbai, 400085, India; Department of Physics, Indian Institute of Technology, Roorkee, Uttarakhand 247667, India	10	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048705174&doi=10.1016%2fj.jallcom.2018.06.058&partnerID=40&md5=1611b204030283371d6171fa1865aa4a
1476	Effect of Superthermal Polarization Force on Dust Acoustic Nonlinear Structures	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049520336&doi=10.1515%2fzna-2018-0079&partnerID=40&md5=a9e83bb7961954b03cd6afb113bd57e0
1477	Supramolecular Ensemble of Perylene Bisimide Derivative and Cu ₂ O-Ag Nanoparticles: Nano/"Dip Strip" Catalytic System for One-Pot, Three-Component Click Reaction at Room Temperature	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052318779&doi=10.1021%2facssuschemeng.8b01515&partnerID=40&md5=ce653563ac66567b8a6abedbd62b604a
1478	Relativistic ponderomotive self-focusing of quadruple Gaussian laser beam in cold quantum plasma	I. K. Gujral Punjab Technical University, Kapurthala, 144603, India; Department of Applied Science, Lyallpur Khalsa College of Engineering, Jalandhar, 145001, India; Department of Physics, Lyallpur Khalsa College, Jalandhar, 145001, India; Amritsar College of Engineering and Technology, Amritsar, 143115, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	6	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054998618&doi=10.1017%2fS026303461800023X&partnerID=40&md5=c0b55f983083a76db95157153bcd8da8
1479	Traditional and improved paddy varieties: Composition, protein, pasting, and gluten-free chapati making properties	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051024388&doi=10.1002%2fcfche.10080&partnerID=40&md5=d890348f50fffea3f4ade5fc8404aaa1
1480	Quality characteristics of carabeef nuggets as affected by pomegranate rind powder	Department of Food Technology, Islamic University of Science and Technology, Awantipora, Pulwama, Jammu and Kashmir 192122, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Processing and Food Engineering, Punjab Agricultural University, Ludhiana, 141004, India; Amity Institute of Food Technology, Amity University, Noida, 201303, India	7	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050624765&doi=10.1007%2fs11694-018-9832-2&partnerID=40&md5=90cff53c3a7b5b99b39acaffc4fa338
1481	[2+2] Cycloadditions of Sorbyl Tosylate with Imines/1-Azadienes: A One-Pot Domino Approach for α -Alkylidene- β -lactams and Their Computational Studies and Antimicrobial Evaluation	Department of Chemical Sciences, I. K. Gujral Punjab Technical University, Kapurthala, Punjab 144603, India; UNAM–National Nanotechnology Research Center, Institute of Materials Science and Nanotechnology, Department of Chemistry, Bilkent University06800, Turkey; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Pharmacy Department, University of KwaZulu Natal, Westville Campus, Durban, Chemistry Department, University of Oye-EkitiEkiti State, Nigeria; School of Chemistry and Physics, University of KwaZulu Natal, P/Bag X54001, Westville, Durban, 4000, South Africa	7	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052510704&doi=10.1002%2fslct.201801605&partnerID=40&md5=123d9c3bf270939226fb7940e8ff0f1b

1482	Organocatalytic Asymmetric Decarboxylative Addition of β -Ketoacids to Methyleneindolinones Derivatives	Department of Chemistry, U.G.C. Centre of Advance Studies in Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Indian Institute of Technology Ropar, Nangal Road, Rupnagar, 140001, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051569348&doi=10.1002%2fejoc.201800454&partnerID=40&md5=8aeb8dfe418ddd2c8d01be9673dc2080
1483	Investigation of electrical, dielectric and microwave properties of double substituted M-type Ba(1–2x)LaxNaxFe10Co0.5TiMn0.5O19 hexaferrite	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; D.A.V. Institute of Engineering and Technology, Jalandhar, India	2	2018	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048288369&doi=10.1007%2fs10854-018-9389-1&partnerID=40&md5=199f4022df28486998efb6494bfbc58
1484	Gold Nanoparticles Immobilized Polymeric PBI Derivative: Productive, Portable, and Photocatalytic System for Heck Coupling	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047768985&doi=10.1021%2facssuschemeng.8b00031&partnerID=40&md5=bd2c0782758bce4210aa7401c7754785
1485	Taxonomic demarcation of setaria pumila (Poir.) Roem. & Schult., S. verticillata (L.) P. Beauv., and S. Viridis (L.) P. Beauv. (cenchrinae, paniceae, panicoidae, poaceae) from phytolith signatures	Plant Systematics and Biodiversity Laboratory, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049593406&doi=10.3389%2ffpls.2018.00864&partnerID=40&md5=1a0da8b3fb8a914c2bac2c7f0e027a22
1486	Fashion self-congruity: scale development and validation	Department of Commerce, Guru Nanak Dev University, Amritsar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045437090&doi=10.1108%2fJFMM-05-2017-0048&partnerID=40&md5=4a7ec43855699c99899a71590d470856
1487	Seasonal variation of mitochondria activity related and heat shock protein genes in spermatozoa of Karan Fries bulls in tropical climate	Khalsa College of Veterinary and Animal Sciences, Amritsar, India; Climate Resilient Livestock Research Centre, Dairy Cattle Physiology, Indian Council of Agricultural Research-National Dairy Research Institute (ICAR-NDRI), Karnal, India; Livestock Production and Management Division, Indian Council of Agricultural Research-National Dairy Research Institute (ICAR-NDRI), Karnal, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027005636&doi=10.1080%2f09291016.2017.1361584&partnerID=40&md5=4a5b0a7bd66564e6c3c6420a757b6360
1488	Gene encoding vesicle-associated membrane protein-associated protein from Triticum aestivum (TaVAP) confers tolerance to drought stress	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Interdisciplinary Centre for Plant Genomics and Department of Plant Molecular Biology, University of Delhi South Campus, Benito Juarez Road, New Delhi, 110021, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85033409114&doi=10.1007%2fs12192-017-0854-1&partnerID=40&md5=b7d2fca9085ec8e77bf6f11c357023e9
1489	Myxobacteria: Producers of enormous bioactive secondary metabolites	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department cum National Centre of Human Genome Studies and Research, Panjab University, Chandigarh, 160014, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048966891&doi=10.26452%2fjirps.v9i2.1440&partnerID=40&md5=9582c3db62ef1913927e76f6b4a61d43
1490	Ferrocenylchalcone–uracil conjugates: synthesis and cytotoxic evaluation	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry, Hindu College, Amritsar, Punjab 143001, India; Centre for Targeted Drug Delivery, Chapman University School of pharmacy, Irvine, CA 92618, United States	6	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042606519&doi=10.1007%2fs00044-018-2145-5&partnerID=40&md5=4fa6f6929a9d633d1a450b479192d277
1491	What determines the disclosure of managerial remuneration in India?	Department of Commerce, Guru Nanak Dev University, Amritsar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061894270&doi=10.1108%2fJFRA-04-2015-0050&partnerID=40&md5=4d2335bebf0ff24202ef2013fe23cb04
1492	Mercurius solubilis attenuates scopolamine-induced memory deficits and enhances the motor coordination in mice	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031494420&doi=10.1080%2f00207454.2017.1382494&partnerID=40&md5=fabaca780a6a097d4a9eace79c6fab55
1493	The HLA-G 14 bp insertion/deletion polymorphism and its association with soluble HLA-G levels in women with recurrent miscarriages	Department of Human Genetics, Guru Nanak Dev University, Amritsar, India; Institute of Medical Genetics and Genomics, Sir Ganga Ram Hospital, New Delhi, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042280105&doi=10.1111%2ftan.13198&partnerID=40&md5=0252cb2d9ff5d4d861a60adca45a0cc2
1494	Nanosystems for drug delivery of coenzyme Q10	School of Pharmaceutical Sciences, Siksha O Anushandhan University, Bhubaneswar, Orissa 751003, India; Reverse Osmosis Membrane Division, Central Salt and Marine Chemicals Research Institute, Bhavnagar, Gujarat 364002, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028304620&doi=10.1007%2fs10311-017-0664-9&partnerID=40&md5=1d7d70152b344a30cdb5d77b67b771ce
1495	Empowering Transition-Metal-Free Cascade Protocol for the Green Synthesis of Biaryls and Alkynes	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052984400&doi=10.1021%2facsomega.7b02014&partnerID=40&md5=6932b497657580df6d06a0304c17a762

1496	Cluster-based single-sink wireless sensor networks and passive optical network converged network incorporating sideband modulation schemes	IKG Punjab Technical University, Research Scholar, Kapurthala, Punjab, India; Shaheed Bhagat Singh State Technical Campus, Ferozepur, Punjab, India; Khalsa College of Engineering and Technology, Amritsar, Punjab, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041453569&doi=10.1117%2F1.OE.57.2.026102&partnerID=40&md5=689328e563ae93a4763c0f57be0b0def
1497	Hybrid channel estimation for MIMO relay systems with Doppler offset influences	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, India; Department of Electronics and Communication Engineering, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85034586150&doi=10.1002%2Fdac.3469&partnerID=40&md5=cd2397c4cef052144322f45233a86891
1498	Exogenously applied putrescine improves the physiological responses of tomato plant during nematode pathogenesis	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85034210385&doi=10.1016%2Fj.scienta.2017.11.021&partnerID=40&md5=e1a2fe32c35f76fc4e84ce19d9be229f
1499	Tailoring of the chlorine sensing properties of substituted metal phthalocyanines non-covalently anchored on single-walled carbon nanotubes	Material Science Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Technical Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; CSIR, National Physical Laboratory, New Delhi, 110012, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054183751&doi=10.1039%2F8ra05529g&partnerID=40&md5=ba7ad970cb569cb8db3588eba68b1892
1500	Hybrid genetic, variable neighbourhood search and particle swarm optimisation-based job scheduling for cloud computing	Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India	1	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054170944&doi=10.1504%2FJJCSE.2018.094928&partnerID=40&md5=a4236584da75bc100e818f6f62e97681
1501	Colloidal systems of surface active ionic liquids and sodium carboxymethyl cellulose: physicochemical investigations and preparation of magnetic nano-composites	Department of Chemistry, UGC-Centre for Advance Studies-II, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049909055&doi=10.1039%2FC8CP02841A&partnerID=40&md5=4cebb82080619779b1fd2df63300a8a4
1502	'Tilting towards south': Pattern and determinants of global value chains	Punjab School of Economics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	1	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85043267492&partnerID=40&md5=dd12e776b80dc8109f9cc4a205ed0842
1503	Visible-light-mediated dehydrogenative cross-coupling between terminal alkynes and aldehydes by employing a supramolecular polymeric ensemble of PBI derivative	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-1, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	5	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040920259&doi=10.1039%2Fc7nj03557h&partnerID=40&md5=dd1040267f2f89ba460f7a140b3eb18
1504	Aluminum and chromium substituted Z-type hexaferrites for antenna and microwave absorber applications	Department of Physics, I.K. Gujral Punjab Technical University, Jalandhar, Punjab, India; Department of Physics, Lovely Professional University, Phagwara, Punjab, India; Satyam Institute of Engineering & Technology, Amritsar, Punjab, India; Department of Electronic and Communication, Guru Nanak Dev University, Amritsar, Punjab, India; School of Physics and Material Science, Thapar University, Patiala, Punjab, India	8	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032822607&doi=10.1007%2Fs10971-017-4532-7&partnerID=40&md5=97a941b20a4a3a311b1720b65d3ad87f
1505	The effect of aliovalent Pb ²⁺ dopant on the magnetic and magneto dielectric properties of LaFeO ₃ solid solutions	Multifunctional Materials Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; UGC-DAE Consortium for Scientific Research, R-5 Shed, BARC, Mumbai, 400085, India	7	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050485230&doi=10.1016%2Fj.immm.2018.07.037&partnerID=40&md5=50e9e76fb29bd957a9979fdea58a8ce6
1506	Synergy of Physico-chemical and Biological Experiments for Developing a Cyclooxygenase-2 Inhibitor	Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049526811&doi=10.1038%2Fs41598-018-28408-8&partnerID=40&md5=3da05c79248469c60175fc063963d8ba
1507	Effects of annealing on density, glass transition temperature and structure of tellurite, silicate and borate glasses	Sensors and Glass Physics Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry and Process & Recourse Engineering, University of Cantabria, Santander, 39005, Spain	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052815545&doi=10.1016%2Fj.inoncrvsol.2018.08.035&partnerID=40&md5=886e51f015592f832978d030065c80b7
1508	Insights into the phenolic compounds present in jambolan (Syzygium cumini) along with their health-promoting effects	P.G. Department of Biotechnology, Khalsa College, Amritsar, Punjab 143002, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054632854&doi=10.1111%2Fijfs.13841&partnerID=40&md5=fe7a956e79e2edb50fbec11a771c5762
1509	Exploration of insecticidal potential of an alpha glucosidase enzyme inhibitor from an endophytic Exophiala spinifera	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India	5	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053674384&doi=10.1111%2Fijam.13947&partnerID=40&md5=92084dd191b160e13fb8bdf7adcb9aee
1510	Antigenotoxic potential of plant leaf extracts of Parkinsonia aculeata L. using Allium cepa assay	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; University of KwaZulu Natal, Westville Campus, Durban, South Africa	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050070519&doi=10.1016%2Fplaphy.2018.07.017&partnerID=40&md5=de9b963df593c35c3ec9099330a2142f

1511	Effect of grain hardness, fractionation and cultivars on protein, pasting and dough rheological properties of different wheat flours	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Division of Genetics, Indian Agricultural Research Institute, New Delhi, 110012, India	7	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047803413&doi=10.1111%2fjifs.13794&partnerID=40&md5=3f489dbfe5515c49ec611b6ef2eb7ead
1512	Determinants of effectiveness in public higher education-students' viewpoint	Department of Commerce, Guru Nanak Dev University, Amritsar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052208464&doi=10.1108%2fijem-09-2016-0188&partnerID=40&md5=36bac1814db726c5d5ae3ab5cf9dba94
1513	Synthesis and Antimycobacterial Evaluation of Piperazyl-alkyl-Ether Linked 7-Chloroquinoline-Chalcone/Ferrocenyl Chalcone Conjugates	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Institut de Recherche en Infectiologie (IRIM), CNRS, UMR 9004, Université de Montpellier, France; INSERM, IRIM, Montpellier, 34293, France	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051169167&doi=10.1002%2fslct.201801453&partnerID=40&md5=f57529b302e83d08e58768325510ab3c
1514	Conventional farming reduces the activity of earthworms: Assessment of genotoxicity test of soil and vermicast	Department of Zoology, Khalsa College, Amritsar, Punjab 143002, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Zoology, Punjab Agricultural University, Ludhiana, Punjab 141004, India; Department Community Ecology, Helmholtz - Centre for Environmental Research-UFZ, Halle, 06110, Germany; German Center for Integrative Biodiversity Research (iDiv), Leipzig, 04103, Germany	7	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055911357&doi=10.1016%2fj.anres.2018.10.012&partnerID=40&md5=e95b5f4c9b4bfc72e92e9ae1b5b4f28
1515	ESIPT-Based Dual Chemosensor for Sequential Detection of Cd2+/Zn2+ and Nucleoside Triphosphates in Water: Application in Logic Gates	Department of Chemistry, UGC Centre for advanced studies –II, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Trinity College, Jalandhar, 144006, India; Department of Chemical Sciences, IK Gujral Punjab Technical University, Kapurthala, 144601, India	5	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050398239&doi=10.1002%2fslct.201801196&partnerID=40&md5=bb36b95849854827f30feb4fd8180f36
1516	Nonplanar dust acoustic solitary and rogue waves in an ion beam plasma with superthermal electrons and ions	Guru Nanak Dev University, Amritsar, 143005, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049379847&doi=10.1088%2f2058-6272%2faac37a&partnerID=40&md5=ad843fd2463cb059d3b2a1a5f5be7f165
1517	Channel estimation in a MIMO relay system: Challenges & approaches channel estimation in MIMO relay system: A review	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, India; Department of Electronics and Communication Engineering, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050083133&doi=10.1109%2fICISC.2018.8399065&partnerID=40&md5=51b5df5e2283fa47d195e1a1f3c1fb56
1518	Antitumour, acute toxicity and molecular modeling studies of 4-(pyridin-4-yl)-6-(thiophen-2-yl) pyrimidin-2(1H)-one against Ehrlich ascites carcinoma and sarcoma-180	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; CSIR-Indian Institute of Integrative Medicine (CSIR-IIIM), Canal Road, Jammu, 180001, India; Department of Pharmaceutical Chemistry, M.M. College of Pharmacy, Maharishi Markandeshwar (Deemed to be University), Mullana-Ambala, New Delhi, Haryana 133207, India; Department of Chemistry, Faculty of Science, University of Buea, P.O. Box 63, Buea, Cameroon; Institute for Pharmacy, Martin-Luther-Universität Halle-Wittenberg, Wolfgang-Langenbeck-Str. 4, Halle (Saale), 06120, Germany; Sri Sai College of Pharmacy Manawala, Amritsar, Punjab 143115, India; Department of Informatics and Chemistry, University of Chemistry and Technology Prague, Technická 5 166 28 Prague 6, Dejvice, Czech Republic	12	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049019065&doi=10.1016%2fj.heliyon.2018.e00661&partnerID=40&md5=ae6ef7c001a46cbeccda3bc6c4877a3b
1519	Structural, optical and photoelectrical properties of thermally annealed amorphous In15Sb15Se70 chalcogenide films	Semiconductors Laboratory, Department of Physics, GND University, Amritsar, 143005, India; Department of Physics, DAV University, Sarmastpur, Jalandhar, 144012, India; Material Science Division, Inter University Accelerator Centre, New Delhi, 110067, India	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044990247&doi=10.1007%2fs00339-018-1771-6&partnerID=40&md5=c4fe2d80ecc59c748fc0d56af187e4f7
1520	Purple head broccoli (Brassica oleracea L. var. italica Plenck), a functional food crop for antioxidant and anticancer potential	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Natural Product Chemistry and Process Development Division, Council of Scientific and Industrial Research-Institute of Himalayan Bioresource Technology (CSIR-IHBT), Palampur, HP 176 061, India; Department of Botany, College of Basic Sciences and Humanity, Punjab Agricultural University, Ludhiana, Punjab 141004, India	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85043378575&doi=10.1007%2fs13197-018-3095-0&partnerID=40&md5=8593c714565bccf2cb4931c16ccb6896

1521	Size-tunable photoluminescence from WS 2 nanostructures	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	5	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056097515&doi=10.1088%2f2053-1591%2faabdc&partnerID=40&md5=0014b7cfff57305c35409b39fb702ee4a
1522	Medicinal plants as novel promising therapeutics for neuroprotection and neuroregeneration	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Physiology and Pathophysiology, Spinal Cord Research Centre, University of Manitoba, Winnipeg, Canada; Department of Anatomy and Cell Biology, College of Medicine, University of Illinois at Chicago, Chicago, IL, United States	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053102998&doi=10.1007%2f978-981-10-8291-7_20&partnerID=40&md5=9ab8cb456f17704b2cb60a7d605396f6
1523	Structural and thermal properties of vanadium tellurite glasses	Sensors and Glass Physics Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Chemistry and Process and Recourse Engineering, University of Cantabria, Spain	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045724176&doi=10.1063%2f1.5028826&partnerID=40&md5=733adc06efbd46978f710ccb33746a46
1524	Association of PGC-1 α gene with type 2 diabetes in three unrelated endogamous groups of North-West India (Punjab): a case-control and meta-analysis study	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India; Heart Station and Diabetes Clinic, Amritsar, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032010915&doi=10.1007%2fs00438-017-1385-2&partnerID=40&md5=f107a155b5371b1fe6dddf06425b436
1525	Optimized reduction of graphite oxide for highly exfoliated silver nanoparticles anchored graphene sheets for dye sensitized solar cell applications	Material Science Research Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; S.I.E.T, Ram Tirath Road, Amritsar, 143107, India; Thin Film Devices Section, Technical Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; National Physical Laboratory, New Delhi, 110012, India	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041456137&doi=10.1016%2fj.electacta.2018.01.154&partnerID=40&md5=ff4d3e7acf7ea7a26f20615150ca9324
1526	Arbitrary amplitude dust kinetic Alfvén solitary waves in the presence of polarization force	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042509395&doi=10.1063%2f1.5009572&partnerID=40&md5=b52fcd93aa33d27ee487150ee81b91c4
1527	Genetic association of -1562C>T polymorphism in the MMP9 gene with primary glaucoma in a north Indian population	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India; Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States; Baba Deep Singh Charitable Hospital, Amritsar, Punjab, India	6	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042115716&doi=10.1371%2fjournal.pone.0192636&partnerID=40&md5=a208520f0404df72f7bb32984ac7efb2
1528	Influence of different isolation methods on physicochemical and rheological properties of native and heat-moisture-treated chickpea starch	Department of Chemical Engineering, Motilal Nehru National Institute of Technology (MNNIT), Allahabad, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Sam Higgonbottom University of Agricultural Sciences and Technology (SHUATS), Naini, Allahabad, India; Plant Genetics Division, Samhigginbottom University of Agriculture and Technology (SHUATS), Naini, Allahabad, India	10	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85034214381&doi=10.1111%2fjifpp.13523&partnerID=40&md5=8fc1fa5107cbbac411817c84b0fc9262
1529	Comparison of hydrogen- and halogen-bonding interactions in the complexes of the substituted carbonyl compounds with hypohalous acids and monohaloamines	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027861805&doi=10.1007%2fs11224-017-1020-1&partnerID=40&md5=458d3e8304b4c011fec2476712c1af07
1530	Tailor made exfoliated reduced graphene oxide nanosheets based on oxidative-exfoliation approach	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041096437&doi=10.1080%2f1536383X.2017.1390454&partnerID=40&md5=8470690ba7f4426a68f7384fe78b05f6
1531	CSPCR: Cloud security, privacy and compliance readiness - A trustworthy framework	Computer Science, Punjab School of Economics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Electronics and Comm. Engg., GNDU Regional Campus, Jalandhar, 144009, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053775447&doi=10.11591%2fijece.v8i5.pp3756-3766&partnerID=40&md5=ea793cea796df8335c205d5013952819
1532	'2TM proteins': An antigenically diverse superfamily with variable functions and export pathways	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India	2	2018	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046870872&doi=10.7717%2fpeeri.4757&partnerID=40&md5=ce96842b93f9c4a8c3c8e99bd10ca7ab
1533	Dynamic route optimization using nature-inspired algorithms in IoV	Department of Computer Science and Engineering, GNDU RC Jalandhar, Jalandhar, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041536687&doi=10.1007%2f978-981-10-5828-8_47&partnerID=40&md5=3c81fdec965c9ef64f0dbd849f5f5218
1534	Use of Fungi in Mitigating Cadmium Toxicity in Plants	Department of Environment Education, Government College of Commerce and Business Administration, Chandigarh, India; Department of Botany, M.C.M. DAV College for Women, Chandigarh, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85080969829&doi=10.1016%2fB978-0-12-814864-8.00016-4&partnerID=40&md5=7c5b3cf6816cd227b7d669c69690d41

1535	Selective and reversible recognition of Hg ²⁺ ions by Tetrathia[22]porphyrin(2.1.2.1)	Department of Chemistry, UGC-Centre of Advanced Study-II, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050650108&doi=10.1016%2fj.saa.2018.07.076&partnerID=40&md5=2dc90987ee29aa6aeb32f3ec554abdf1
1536	Physico-nutritional and sensory properties of cookies formulated with quinoa, sweet potato and wheat flour blends	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; Department of Food Science and Technology, Punjab Agricultural University, Ludhiana, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059504305&doi=10.12944%2fcrnfsj.6.3.22&partnerID=40&md5=2807852fdb706aa3624f04bd9a82a7ee
1537	Corporate Reputation: Do Board Characteristics Matter? Indian Evidence	Senior Research Fellow, Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058167907&doi=10.1177%2f0974686218797758&partnerID=40&md5=fec410f22017ddba2e69a27cdb3b9dc7
1538	5 × 10 Gbps WDM-CAP-PON based on frequency comb using OFDM with blue LD	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056764870&doi=10.1007%2fs11082-018-1703-x&partnerID=40&md5=02162854d932035b4fedc5615e42f6fc
1539	Temperature dependent photoluminescence from WS ₂ nanostructures	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	5	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056111781&doi=10.1007%2fs10854-018-0137-3&partnerID=40&md5=0c17ddc137fc40dbe9e4b525d45c3cbe
1540	Phytoremediation in waste management: Hyperaccumulation diversity and techniques	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	13	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064041562&doi=10.1007%2f978-981-13-2242-6_11&partnerID=40&md5=9028899c68749ec89a10e3915697b531
1541	A novel feedback system for pedagogy refinement in large lecture classrooms	IDP in Educational Technology, Indian Institute of Technology, Bombay, India; Department of Computer Engineering and Technology, GNDU, Amritsar, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060062895&partnerID=40&md5=bac56a7fe78c1569300d6c156d7721cb
1542	Keto-Enol Tautomerism of Temperature and pH Sensitive Hydrated Curcumin Nanoparticles: Their Role as Nanoreactors and Compatibility with Blood Cells	Department of Natural and Applied Sciences, University of Wisconsin, Green Bay, 2420 Nicolet Drive, Green Bay, WI 54311-7001, United States; Nanotechnology Research Laboratory, College of North Atlantic, Labrador City, NL A2 V 2K7, Canada; Department of Chemistry, B.B.K. D.A.V. College for Women, Amritsar Punjab, 143005, India; Amity Institute of Applied Sciences, AUUP, Noida, 201304, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar Punjab, 143005, India	7	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056348462&doi=10.1021%2facs.jafc.8b03893&partnerID=40&md5=6c971a20877e4bf251b5d0caf3a2483
1543	Media Use and Materialism: A Comparative Study of Impact of Television Exposure and Internet Indulgence on Young Adults	Department of Commerce and Business Management, Khalsa College Amritsar, Amritsar, Punjab, India; University Business School, Guru Nanak Dev University, Amritsar, Punjab, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075713797&doi=10.1177%2f0258042X18791613&partnerID=40&md5=94e0ef914acd1ca79e75b0733d116d5d
1544	Comparison of Physico-Chemical Properties of Starch Isolated From Bran and Endosperm of Rice (Oryza sativa L.)	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143 005, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055965867&doi=10.1002%2fstar.201700242&partnerID=40&md5=1ebc3ba5043ea8c0e88d17f6c1066461
1545	Genotoxic damage in end-stage renal disease	Department of Human Genetics, Guru Nanak Dev University, Amritsar, 143 005, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051754983&doi=10.1016%2fj.mrgentox.2018.08.005&partnerID=40&md5=5c95fe6efe4f3ed3b57b068b7bf17338
1546	Channel Estimation in MIMO-OFDM System: A Review	Department of Electronics and Communication Engg., GNDU RC, Jalandhar, India; Department of Electronics and Communication Engg., NIT, Jalandhar, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060875777&doi=10.1109%2fICECA.2018.8474747&partnerID=40&md5=c2fa38ed0257416b456dde0497cc7346
1547	Dressed state analysis of electromagnetically induced transparency in a five-level X-type atomic system with wavelength mismatching effects	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055621755&doi=10.1088%2f1402-4896%2faadec9&partnerID=40&md5=08c0123791b562b631caf70c0e8b6be5
1548	Stability and dynamics of a cosh-Gaussian laser beam in relativistic thermal quantum plasma	Department of Physics, Lyallpur Khalsa College, Jalandhar, 144001, India; Research Scholar, I.K. Gujral Punjab Technical University, Kapurthala, 144603, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, DAV College, Jalandhar, 144001, India; Department of Applied Science, Lyallpur Khalsa College of Engineering, Jalandhar, 144001, India	5	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055007249&doi=10.1017%2fS0263034618000277&partnerID=40&md5=9e38670837a72ec56010700dbcf555bd
1549	Simulating Fraunhofer diffraction of waves using microsoft excel spreadsheet	PG Department of Physics, Khalsa College, Amritsar, 143005, India; School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051497847&doi=10.1088%2f1361-6552%2faacd82&partnerID=40&md5=19a69c78ab62272ba75a478ce989c0b4

1550	National Innovation System of India: An Empirical Analysis	Punjab School of Economics, Guru Nanak Dev University, Amritsar, Punjab, India	1	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051792470&doi=10.1177%2f0976399618786343&partnerID=40&md5=e7cbde7012e0b2d07a0475e20b67c03d
1551	P2X7 receptor polymorphisms and susceptibility to tuberculosis in a North Indian Punjabi population	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, India; Sri Guru Ram Das Institute of Medical Sciences and Research, Vallah, Amritsar, India; Department of TB and Respiratory Diseases, Sri Guru Ram Das Institute of Medical Sciences and Research, Vallah, Amritsar, Punjab 143501, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049757095&doi=10.5588%2fijitld.18.0023&partnerID=40&md5=f475f585f218e38c7baf0c1219478858
1552	Assessment of radiation dose due to intake of uranium through groundwater and its carcinogenic and non-carcinogenic risks in southwest and northeast Punjab, India	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Applied Sciences, Guru Kashi University, Bathinda, Punjab, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042534516&doi=10.1177%2f1420326X17699978&partnerID=40&md5=5de006b429dde44198832c8c6c542ac0
1553	A Fog Assisted Cyber-Physical Framework for Identifying and Preventing Coronary Heart Disease	GNDU Regional Campus Gurdaspur, Gurdaspur, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047907239&doi=10.1007%2fs11277-018-5680-y&partnerID=40&md5=e06ce9e09002f914feb69f985cda573a
1554	Gerontechnology - The study of Alzheimer disease using cloud computing	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050106938&doi=10.1109%2fICECD5.2017.8390159&partnerID=40&md5=232a79bd8048025770152ace23886f1b
1555	Study of atomic coherence effects in multi-level v+E system involving Rydberg state	Department of Physics, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Physics, Indian Institute of Technology, Roorkee, 247 667, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055636409&doi=10.1140%2fepjd%2fe2018-90172-1&partnerID=40&md5=ec5646b16f6b77edeacc3c0d76e6f915
1556	Transport in a fullerene terminated aromatic molecular device	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049832679&doi=10.1016%2fjisamd.2018.02.003&partnerID=40&md5=f503fe18b7542069b78645d5a04f44de
1557	Significant enhancement in the propagation of cosh-Gaussian laser beam in a relativistic-ponderomotive plasma using ramp density profile	I.K. Gujral Punjab Technical University, Kapurthala, 144603, India; Department of Physics, Lyallpur Khalsa College of Engineering, Jalandhar, 144001, India; Department of Mathematics, Lyallpur Khalsa College, Jalandhar, 144001, India; Department of Mathematics, Thapar University, Patiala, 147004, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	6	2018	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049046761&doi=10.1017%2fS0263034618000125&partnerID=40&md5=a69688ae79d2c12ee7e90cdee98cd419
1558	Teaching graphical simulations of Fourier series expansion of some periodic waves using spreadsheets	P.G. Department of Physics, Khalsa College, Amritsar, 143001, India; School of Mathematics, Thapar University, Patiala, 147004, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045628395&doi=10.1088%2f1361-6552%2faab447&partnerID=40&md5=8cdad67f9133e76fb52a8dce4c1d7327
1559	In vitro investigation of the growth of hydroxyapatite and proliferation of human cell lines on the sol gel derived diopside co-substituted tricalcium phosphate bioceramics	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India; Department Cum National Center for Human Genome Studies and Research, Panjab University, Chandigarh, 160014, India	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047240062&doi=10.1088%2f2057-1976%2faabc63&partnerID=40&md5=00d56383e30e67f5be1cd6e884b2a2f1
1560	Automated blast disease detection from paddy plant leaf - A color slicing approach	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050494865&doi=10.1109%2fCIITM.2018.8333972&partnerID=40&md5=5d6dc02c4968ae515d8d9cded058d60b
1561	Evaluation of benzyl-butyl phthalate induced germination and early growth vulnerability to barley seedlings (Hordeum vulgare L.)	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143 005, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053063571&partnerID=40&md5=030a80d99e986f835a484119de4f8371
1562	Semiclassical triton	University of Mumbai, Mumbai, 400 098, India; Nuclear Physics Division, Bhabha Atomic Research Centre, Mumbai, 400 085, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Homi Bhabha National Institute, Anushakti Nagar, Mumbai, 400 094, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044457300&doi=10.1140%2fepja%2fi2018-12480-y&partnerID=40&md5=a80062abeb5f2f0a3ce4ab420f26ff97
1563	Eco-friendly method for the extraction of earthworms: Comparative account of formalin, AITC and Allium cepa as extractant	Department of Zoology, Khalsa College, Amritsar, Punjab, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department Community Ecology Helmholtz – Centre for Environmental Research-UFZ, Germany; iDiv – German Centre for Integrative Biodiversity Research, Leipzig, Germany	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85033799864&doi=10.1016%2fj.apsoil.2017.11.007&partnerID=40&md5=f01706b98a12b2c382c5305d17f1004d

1564	Sonochemical synthesis, characterization, thermal and semiconducting behavior of nano-sized azidopentaamminecobalt(III) complexes containing anion, CrO42– or Cr2O72–	Department of Chemistry, UGC Centre for Advanced Studies-1, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry (UGC & DST-FIST Sponsored), Saurashtra University, Rajkot, Gujarat, India; Department of Physics, Saurashtra University, Rajkot, Gujarat, India; Department of Chemistry, Maharishi Markandeshwar University, Mullana, Ambala, Haryana 133207, India	6	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030164980&doi=10.1016%2fj.ultsonch.2017.09.038&partnerID=40&md5=9977af7b6a5799bc65bbdd3256f5e82c
1565	A simultaneous all-optical half/full-subtraction strategy using cascaded highly nonlinear fibers	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; Department of Electronics & Communication Engineering, Punjabi University, Patiala, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85034258668&doi=10.1080%2f09500340.2017.1401132&partnerID=40&md5=671e614a0c21767ad06422d181c73a34
1566	Punica granatum (pomegranate) carpellary membrane and its modified form used as adsorbent for removal of cadmium (II) ions from aqueous solution	Department of Chemistry, Manav Rachna International University, Faculty of Engineering and Technology, Sector-43, Delhi-Surajkund Road, Aravali Hills, Faridabad, Haryana 121004, India; Department of Chemistry, Centre of Advanced Study, Guru Nanak Dev University, Amritsar, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042192514&doi=10.2166%2fagua.2017.026&partnerID=40&md5=54b009b5dc62f6291dd5c7506324d4e2
1567	Hydrogen bonded complexes of oxazole family: electronic structure, stability, and reactivity aspects	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029725451&doi=10.1007%2fs11224-017-1032-x&partnerID=40&md5=1c3f55b8428494345a9a0833ec1e4349
1568	Vector-Valued Nonuniform Wavelet Packets	Lajpat Rai D.A.V. College, Jagraon, India; Department of Mathematics, Guru Nanak Dev University, Amritsar, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029547615&doi=10.1080%2f01630563.2017.1355814&partnerID=40&md5=e0a88eea267f8765771a7b8d987d594
1569	Brassinosteroids Reciprocates Heavy Metals Induced Oxidative Stress In Radish By Regulating The Expression Of Key Antioxidant Enzyme Genes	Department of Agriculture, DAV University, Jalandhar, Punjuab, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India; Botanical and Environmental Sciences, Nanak Dev University, Amritsar, Punjab, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078331522&doi=10.1590%2f1678-4324-2018160679&partnerID=40&md5=a9a32714adfab43c135e63d21f4cc43d
1570	An insight into drought stress and signal transduction of abscisic acid	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063726778&doi=10.14719%2fst.2018.5.2.388&partnerID=40&md5=ee34e13badf57310813b3b014de29ff9
1571	Hybrid PSACGA Algorithm for job scheduling to minimize makespan in heterogeneous grids	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063140924&doi=10.1007%2f978-981-10-3953-9_12&partnerID=40&md5=e385717204cbf614528d167ca92241a9
1572	Synthesis, spectral characterization, antibacterial and anticancer activity of some titanium complexes	Department of Chemistry, National Institute of Technology, Hamirpur, H.P. 177005, India; Department of Biotechnology, Deen-bandhu Chhotu Ram University of Science and Technology, Murthal (Sonepat), Haryana 131039, India; Multi-Disciplinary Research Unit, Dr R P Govt. Medical College, Tanda, Kangra, HP 176061, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	7	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052211481&doi=10.2174%2f1871520618666171219122431&partnerID=40&md5=ec13644d1f98e573dd87346a4ccc8fd3
1573	Enhanced gain in S+C band utilizing TDFA-FRA hybrid amplifier in cascaded and parallel configurations at reduced channel spacings for DWDM systems	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab 147001, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045015855&partnerID=40&md5=66a772aefec979aeea0253be725e2da3
1574	Synthesis, Characterization and Evaluation of Surface and Thermal Properties of 3-Cyclohexyloxy-2-Hydroxypropyl Pyridinium and Imidazolium Surface-Active Ionic Liquids	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042234461&doi=10.1002%2fjsde.12002&partnerID=40&md5=da1c4cf8c7e10d0afa5b964485584037
1575	Towards incorporating context awareness to recommender systems in internet of things	GNDU Regional Campus, Jalandhar, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041555214&doi=10.1007%2f978-981-10-5828-8_73&partnerID=40&md5=04b4a7b373cdc072db8682add62dd96f
1576	Li doping induced physico-chemical modulations in Cd ferrite (Cd _{1-x} Fe(2-x)O _{4-x}) synthesized using aqueous ammonia assisted co-precipitation route	Department of Chemistry, Centre for Advanced Studies – II, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry, DAV College, Amritsar, Punjab 143001, India; Department of Chemistry, BUC College, Batala, Punjab 143505, India; Department of Chemistry, Hindu College, Amritsar, Punjab 143001, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030974176&doi=10.1016%2fj.mseb.2017.10.001&partnerID=40&md5=06f6fc595fbb0b69e651a4bc8585b2d
1577	The performance evaluation of wideband rectangular patch antenna with elliptical slots for wireless communications	Department of Electronics & Communication Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063107810&doi=10.1007%2fs41870-018-0176-2&partnerID=40&md5=bf60c6b85b82c34132242eaa79e3acd

1578	Perceived social support and perceived stress, relations to adjustment among migrant students: A test of buffering hypothesis	School of Education, Lovely Professional University, Phagwara, India; Department of Education, Guru Nanak Dev University, Amritsar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062936672&doi=10.5958%2f0976-5506.2018.02248.9&partnerID=40&md5=e91270646bc01fe346e869f8f40ddfd6
1579	Screening of CYP1B1 Arg368His as predominant mutation in North Indian primary open angle glaucoma and juvenile onset glaucoma patients	Department of Biotechnology, GGSDS College, Sector-32C, Chandigarh (UT), 160030, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060112870&doi=10.22099%2fmbrc.2018.30630.1344&partnerID=40&md5=9428158d7b5c8612a2bd41f44a7c14e3
1580	CEOs' Characteristics and Firm Performance: A Study of Indian Firms	University School of Financial Studies, Guru Nanak Dev University, Amritsar, Punjab, India; University School of Financial Studies, Guru Nanak Dev University, Amritsar, Punjab, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058177448&doi=10.1177%2f0974686218806714&partnerID=40&md5=eed4f92ead45c4e338465b9c02611dfa
1581	Obliquely Propagating Electron Acoustic Shock Waves in Magnetized Plasma	I. K. Gujral Punjab Technical University, Kapurthala, 144601, India; Sikh National College, Banga, 144505, India; Department of Applied Science, Lyallpur Khalsa College of Engineering, Jalandhar, 144001, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056144802&doi=10.1007%2fs13538-018-0609-1&partnerID=40&md5=a7eca9542bf62e56afb8e08d329a53be
1582	Role of micro-organisms in modulating antioxidant defence in plants exposed to metal toxicity	Plant Stress Physiology Lab, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Zoological Sciences, Guru Nanak Dev University, Amritsar, India; Department of Botany, School of Life Sciences, Satellite Campus Kargil, University of Kashmir, Kargil, Jammu and Kashmir, India	9	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075850696&doi=10.1007%2f978-981-13-2242-6_12&partnerID=40&md5=3e47aff6d21b9f8f738091a554423255
1583	An industrial study on developers' prevalent copy and paste activities	Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057758637&doi=10.1109%2fICNGCIS.2017.16&partnerID=40&md5=b519efa59d423d1b847d50a0b0b1b95c
1584	β -glucan from different Indian oat (<i>Avena sativa</i>) cultivars: Chemical, functional, structural, and rheological properties	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055467035&doi=10.1111%2fjcpp.13788&partnerID=40&md5=cc39746533511a4487c30c6b4f80ec1a
1585	Quantum tunneling through aromatic molecular junctions for molecular devices: A review	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054689808&doi=10.1016%2fj.cjph.2018.03.034&partnerID=40&md5=bc3b777528a5dad9ed66181b0b3caa5
1586	Analysis of FSO based ROF-WDM System with Advance Intensity Modulation Techniques under Various Atmospheric Conditions	Electronics and Communication Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060873242&doi=10.1109%2fICECA.2018.8474722&partnerID=40&md5=88c6fb22f341b2111b460ab05645c61f
1587	Effect of dilute concentrations of Sm on the temperature-dependent electrical and dielectric properties of ZnO	Department of Physics, Guru Nanak Dev University, Amritsar, India; Materials Science Division, Inter University Accelerator Centre, New Delhi, India; Department of Physics, S.M.D.R.S.D College, Pathankot, India; Department of Physics, Khalsa College, Amritsar, India; Department of Physics, DAV College, Amritsar, India	12	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045346108&doi=10.1111%2fjace.15571&partnerID=40&md5=6dafb13fc56eb3759010c5ad2c3236f6
1588	Effect of dissipative environment on collapses and revivals of a non-linear quantum oscillator	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Physical Sciences, Indian Institute of Science Education and Research (IISER) Mohali, PO Manauli, Punjab 140306, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051178130&doi=10.1140%2fepjd%2fe2018-80782-x&partnerID=40&md5=3a58bab9613e29f29b157dee21a826a9
1589	Anion-controlled geometrically different Cu(II) ion-based coordination polymers and green synthetic route for copper nanoparticles: a combined experimental and computational insight	Department of Applied Chemistry, Maharaj Ranjit Singh Punjab Technical University, Bathinda, India; Department of Chemistry, Indian Institute of Technology Delhi, New Delhi, India; Department of Chemistry, Indian Institute of Technology Kanpur, Kanpur, India; Department of Chemistry, Centre of Advanced Studies-II, Guru Nanak Dev University, Amritsar, India; Department of Chemistry, Hindu College, Amritsar, India	5	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048807100&doi=10.1080%2f00958972.2018.1483077&partnerID=40&md5=3079fc0ac4c7c259942bef842adf1d5c
1590	CYP2D6 (C2850T, G1846A, C100T) polymorphisms, haplotypes and MDR analysis in predicting coronary artery disease risk in north-west Indian population: A case-control study	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045541034&doi=10.1016%2fj.gene.2018.04.008&partnerID=40&md5=9b1b369e523483deacce96455d9d4cab

1591	Higher-component quadrupole polarizabilities: Estimations for the clock states of the alkaline-earth-metal ions	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Atomic, Molecular and Optical Physics Division, Physical Research Laboratory, Navrangpura, Ahmedabad, 380009, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050071009&doi=10.1103%2FPhysRevA.98.013406&partnerID=40&md5=2950efcc0e743a21997a8d47c3cfe53b
1592	Testing the Tracking Efficiency of Commodity Exchange Traded Funds (ETFs) across the Bearish and Bullish Market Regimes: Evidence from Indian Gold ETFs	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049944466&doi=10.1080%2F10599231.2018.1490593&partnerID=40&md5=fc60adfa4ad001d31948b7d9b45f370a
1593	A Credits Based Scheduling Algorithm with K-means Clustering	Applied Science - Computer Applications, Hoshiarpur, India; Panjab University SSG Regional Centre, Hoshiarpur, India; I. K. Gujral Punjab Technical University, Jalandhar, India; Computer Science Engineering, Amritsar, India; Khalsa College of Engineering and Technology, Amritsar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065658924&doi=10.1109%2FICSCCC.2018.8703201&partnerID=40&md5=2bb00aa41f1db1dd531c3f69274ece5e
1594	Stacked Autoencoders Based Deep Learning Approach for Automatic Epileptic Seizure Detection	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University Regional Campus, Jalandhar, Punjab, 144001, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065640334&doi=10.1109%2FICSCCC.2018.8703357&partnerID=40&md5=1423234b52c62840b8ed4a407fb399b4
1595	Fabrication of Polythiophene-Supported Ag@Fe3O4 Nanoclusters and Their Utilization as Photocatalyst in Dehydrogenative Coupling Reactions	Department of Chemistry, UGC-Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046545781&doi=10.1021%2Facsuschemeng.7b04891&partnerID=40&md5=5b6aea4002a0d9b59496f507a9ddad97
1596	Relativistic effects on propagation of q-Gaussian laser beam in a rippled density plasma: Application of higher order corrections	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Regional Institute of Education, Bhubaneswar, 751022, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052593470&doi=10.1017%2FS0263034618000228&partnerID=40&md5=fc9906f9dc4136bd125155cbf11e5f1f
1597	Impact of viral advertising on product promotion: An experimental study	University Business School, Guru Nanak Dev University, Amritsar, Punjab, 143 001, India; Department of Business Management, Guru Nanak Dev University (RC), Gurdaspur, Punjab, 143 521, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049258900&doi=10.17010%2Fijom%2F2018%2Fv48%2Fi6%2F127837&partnerID=40&md5=b8cac1dc99baa70fecb0839b20365930
1598	Influence of frequency and temperature on dielectric and electrical properties of Ca-substituted barium iron niobate	Department of Electronics and Communication Engineering, Global Institute of Management and Emerging Technologies, Amritsar, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042272629&doi=10.1016%2Fj.ceramint.2018.02.119&partnerID=40&md5=d391fe43b184060b6fe38cab6ea83491
1599	Stereoselective organocatalytic synthesis of γ , γ -disubstituted butenolides	Department of Chemistry, U.G.C. Centre of Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Indian Institute of Technology Ropar, Nangal Road, Rupnagar, 140001, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051363150&doi=10.1002%2Fslct.201801217&partnerID=40&md5=853f365111d203f8fbcb826c06e4dfe8
1600	Molecular Interactions of Saccharides and Their Derivatives with Thiamine HCl and Pyridoxine HCl Vitamins in Aqueous Solutions: Calorimetric, Viscometric, and NMR Spectroscopic Studies	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046934308&doi=10.1021%2Facs.jced.7b00937&partnerID=40&md5=fe417be95d87caf75f71ce51795e3148
1601	High efficiency in vitro plant regeneration and secondary metabolite quantification from leaf explants of rhodiola imbricata	Department of Biotechnology, Defence Institute of High Altitude Research, Defence Research and Development Organization, Leh, 194101, India; Department of Biotechnology, Guru Nank Dev University, Amritsar, Punjab 143040, India; Department of Biotechnology, Institute of Himalayan Bioresource Technology, Council of Scientific and Industrial Research, Palampur, Himachal Pradesh, 176061, India	9	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052020904&doi=10.5530%2Fpi.2018.3.77&partnerID=40&md5=7bcb612d02f61af2adc0438eeb0a4064
1602	Citation analysis of theses in economics submitted to punjabi university, Patiala during 2000-2014	Department of Library and Information Science, Guru Nanak Dev University, Amritsar, 143 005, India; Bhai Kahn Singh Nabha Library, Punjabi University, Patiala, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046535490&doi=10.14429%2Fdilil.38.3.12474&partnerID=40&md5=487b48fc224b029c1365022e261fb8fd
1603	Envisaging quantum transport phenomenon in a muddled base pair of DNA	Guru Nanak Dev University, Amritsar, 143 001, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044598578&doi=10.1007%2Fs12043-018-1549-6&partnerID=40&md5=bab774035b1c3c7c53f78a1d61d0d596
1604	Chromatographic fingerprinting, antioxidant, and anti-inflammatory potential of Dioscorea villosa (Wild Yam) leaves	Department of Pharmaceutical Sciences, Lovely Professional University, Phagwara, Punjab, India; Prime Healthcare, San Diego, CA, United States; Department of Pharmacognosy, Khalsa College of Pharmacy, Amritsar, Punjab, India	10	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052923577&partnerID=40&md5=054fa8dd98db7befd856664bc34c2783
1605	Dentin dysplasia type 1 - Clinical management dilemmas: A case report of first-generation sufferers	Department of Pedodontics and Preventive Dentistry, GDC, S. S. S. Chowkh, Amritsar, Punjab, 143 001, India; Department of Genetics, Guru Nanak Dev University, Amritsar, Punjab, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049670124&doi=10.4103%2FJISPPD.JISPPD.1127.17&partnerID=40&md5=fa598fca2c3087a8db4efe66fb78b0de

1606	From Dual to Discriminatory Sensing of CN-/F-Using Isomeric Molecules and Ascertained by Spectroscopic and DFT Methods	Department of Chemistry, UGC sponsored centre of advance studies-I, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry, Indian Institute of Technology Ropar, Rupnagar, Punjab 140001, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044461134&doi=10.1002%2fslct.201702950&partnerID=40&md5=50d420bb7501a963e1a5d4e9dddc04b3
1607	Bioassay guided fractionation and in vitro anti-plasmodial activity of ficus deltoidea and ficus benjamina	S.B.S. College of Pharmacy, Patti, Tarn Taran, Punjab, India; Faculty of Pharmaceutical Sciences, IKG Punjab Technical UniversityPunjab, India; PG Department of Chemistry, Khalsa College, Amritsar, Punjab, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048193180&doi=10.5530%2fnpj.2018.2.41&partnerID=40&md5=7778664628d997e8df3c337fe273b19d
1608	Media Literacy and Education in India During Times of Communication Abundance	Department of Sociology, Guru Nanak Dev University, Amritsar, Punjab, India	1	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046740346&doi=10.1177%2f0973258617743625&partnerID=40&md5=eb4605d461bb5c101431a055a061341f
1609	Influence of germination period on physicochemical, pasting and antioxidant properties of Indian wheat cultivars	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027520743&doi=10.1007%2fs11694-017-9617-z&partnerID=40&md5=513e27d1eef5c96eb6285c7cd935ca3d
1610	Advanced VANET information dissemination scheme using Fuzzy logic	CSE Department, Guru Nanak Dev University, Amritsar, Punjab, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047445273&doi=10.1109%2fCCWC.2018.8301653&partnerID=40&md5=e74545c14fbc9f5da2f8f12fefef073
1611	Chemical profiling of polyphenols in extracts from bark of Acacia nilotica (Linn.) and their efficacy against Spodoptera litura (Fab.)	Department of Zoology, Guru Nanak Dev University, Amritsar, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85043515858&doi=10.1080%2f03235408.2018.1438802&partnerID=40&md5=9ab17f0ef690035e788f2e1cc5a1d4ce
1612	Freak waves in dusty plasma with two temperature superthermal ions	Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041025844&doi=10.1063%2f1.5020401&partnerID=40&md5=e79f7ae55a97366d5615e4b26d020a4c
1613	Custodial violence in Kashmir by the Indian security forces: A spontaneous consequence or a deliberate counter-insurgency policy?	Department of Political Science, Guru Nanak Dev University, Amritsar, Punjab, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066148005&doi=10.5281%2fzenodo.2657636&partnerID=40&md5=084aaf97547d9794bbba54a896bf93c8
1614	Emerging role of polyamines in plant stress tolerance	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053804412&doi=10.2174%2f1389203719666180718124211&partnerID=40&md5=6c209d52f4a13d96728b1ad80434ce99
1615	Disruptive effect of pyrogallol on development of Spodoptera litura (Fab.) larvae	Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051091976&partnerID=40&md5=beff7e073374cce8d806bc0fe64f6378
1616	MX/G/1 state dependent arrival queue with optional service and vacation under randomised policy	Department of Mathematics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Mathematics, MLU DAV College, Phagwara, 144402, India; Department of Applied Sciences, Khalsa College of Engineering and Technology, Amritsar, 143002, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047732756&doi=10.1504%2fIJISE.2018.091902&partnerID=40&md5=d867c4a0fc963e9bb3d4a140882c268c
1617	Evaluation of antidiabetic and antioxidant potential of endophytic fungi isolated from medicinal plants	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab, 143 005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046033841&partnerID=40&md5=9e7f3d99e0efa550c946750222810b24
1618	Optimizing accuracy of sentiment analysis using deep learning based classification technique	Guru Nanak Dev University, Amritsar, Punjab, India; Faculty of Engineering, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044079684&doi=10.1007%2f978-981-10-8527-7_43&partnerID=40&md5=90cd2852284c54d08a80406db02bd5ef
1619	Interrelationship of thyroid hormones, obesity, and prolactin in infertile women	Department of Khalsa College of Pharmacy & Technology, Amritsar, Punjab, India	3	2018	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85039863805&doi=10.22159%2fajpcr.2018.v11i1.20861&partnerID=40&md5=b517af80a8d242560488d816cf8856f2
1620	Anti-inflammatory effect of methanolic extract of Gmelina arborea bark and its fractions against carrageenan induced paw oedema in rats	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031492395&doi=10.1080%2f14786419.2017.1385005&partnerID=40&md5=fd606f95a08d5d35f99f2ceeebd747ef
1621	Smart fluorescent supramolecular assemblies: Self-assembly in the presence of metal ions and anions in mixed aqueous media	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143 005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090750959&partnerID=40&md5=ab080b445243753b8de85307c948e523
1622	Impact of webquest on student engagement	Department of Education, Amritsar Guru Nanak Dev University, Amritsar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063000889&doi=10.5958%2f0976-5506.2018.02230.1&partnerID=40&md5=84bfb148d6913e5eb6f5b266a679dbe0

1623	Change profile analysis of open-source software systems to understand their evolutionary behavior	Department of Computer Science, Guru Nanak Dev University, Amritsar, 143005, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85038830881&doi=10.1007%2fs11704-016-6301-0&partnerID=40&md5=bd07cf424eb4e2a345e91dc805fa0eb0
1624	Effect of potassium chloride on the solvation behavior of caffeine, theophylline and theobromine: Volumetric, viscometric, calorimetry and spectroscopic approach	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047784288&doi=10.1016%2fi.foodchem.2018.05.112&partnerID=40&md5=79382c35621728fb945d12b5ce0f6677
1625	Li2O-Ta2O5-TiO2 M-phase solid solutions as effective X-band shielders	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051365120&doi=10.1016%2fi.ceramint.2018.08.044&partnerID=40&md5=4935f9074aef05cbe6187701aa9b4529
1626	Tunable Thermoelectric Performance in Porous Armchair Graphene Nanoribbons as a Function of Strain, Pore Morphology and Temperature	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University, RC Jalandhar, Ladhe wali, Punjab 144007, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051235520&doi=10.1007%2fs11664-018-6540-y&partnerID=40&md5=00935b34e0a89281cc84c7be8151f7cb
1627	Trust in open source software development communities: A comprehensive analysis	IKG Punjab Technical University, Kapurthala, Punjab, India; Department of Computer Science and Engineering, Beant College of Engineering and Technology, Gurdaspur, Punjab, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060808737&doi=10.4018%2fijOSSP.2018100101&partnerID=40&md5=b5613f0612c3e7861d1d39316aef2934
1628	Replication of MACF1 gene variant rs2296172 with type 2 diabetes susceptibility in the Bania population group of Punjab, India	Human Genetics Research Group, Department of Biotechnology, Shri Mata Vaishno Devi University, Katra, J&K 182320, India; Department of Biotechnology, University of Jammu, Jammu, 180006, India; Guru Nanak Dev University, Amritsar, India; Jammu, India	12	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058797973&doi=10.1007%2fs13410-017-0598-6&partnerID=40&md5=633d9fe43bf8953c24ced2c8b3d9af94
1629	Acute inhalation toxicity study of n-heneicosane and its combination with diflubenzuron: An attracticide of Aedes aegypti	Division of CBRN Defence, Institute of Nuclear Medicine and Allied Sciences, Delhi, India; Department of Pharmacology, Khalsa College of Pharmacy, Amritsar, India; QuentilesIMS, Bangalore, India; Saveetha University, Chennai, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050511409&doi=10.1177%2f0748233718774987&partnerID=40&md5=4edbefea662fc7cfa6fd3fcb70697ea1
1630	The effect of substituents at C2/N1 atoms of salicylaldehyde and 2-hydroxyacetophenone based thiosemicarbazones on the nature of nickel(II) complexes with 1,10-phenanthroline and terpyridine as co-ligands	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemistry, Howard University, Washington, DC 20059, United States; Departamento De Quimica Inorganica, Facultad de Farmacia, Universidad de Santiago, Santiago, 15782, Spain; Department of Chemistry, Purdue University, West Lafayette, IN 47907-2084, United States	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048822340&doi=10.1016%2fi.ica.2018.06.024&partnerID=40&md5=35c7207f39ce87b37fd7af6381298da9
1631	Modeling protein-protein interactions through alanine-amide hydrogen bonds	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047107933&doi=10.1007%2fs11224-018-1127-z&partnerID=40&md5=bb33fdff47b2bfe2a77b2aacfc850103
1632	Thiosemicarbazones of copper: Crystal structures of [(furan-2-acetaldehyde-N-phenyl-thiosemicarbazonato)][bis(triphenylphosphine)]copper(I) and [bis(furan-2-formaldehyde-N-phenyl-thiosemicarbazonato)]copper(II)	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Departamento de Quimica Inorganica, Facultad de Farmacia, Universidad de Santiago, Santiago, 15782, Spain; Department of Chemistry, Keene State College, Keene, NH 03435-2001, United States	5	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049084385&doi=10.1016%2fi.poly.2018.06.022&partnerID=40&md5=e4c28305259278e42dafc2de87e79ca0
1633	Impact of investment in intangible assets on corporate performance in India	University School of Financial Services, Guru Nanak Dev University, Amritsar, India; Department of Commerce, Pt. Mohan Lal SD College for Women, Gurdaspur, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057587500&doi=10.1108%2fIJLMA-05-2017-0127&partnerID=40&md5=a99c5fe05d4b59146114db5bc4bef082
1634	Stability of temperature modulated convection in a vertical fluid layer	Department of Mathematics, Guru Nanak Dev University Amritsar, India; Centre for Advanced Study in Mathematics, Panjab University Chandigarh, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047469324&doi=10.1016%2fi.apm.2018.05.002&partnerID=40&md5=d e7428e29ac9a33b04c23bf2d70fb7ff
1635	Vermiremediation and detoxification of sugar beet pulp waste using Allium cepa bioassay	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; River Basin Research Center, Gifu University, 1-1 Yanagido, Gifu, 501-1193, Japan; P.G. Department of Zoology, Khalsa College, Amritsar, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065890009&doi=10.1007%2fs40974-018-0096-9&partnerID=40&md5=9e2432e0e37b5a0be82c20fe75f474cd
1636	Quantum chemical study of hydrogen-bonded complexes of serine with water and H 2O 2	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143 005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051081356&doi=10.1007%2fs12039-018-1506-4&partnerID=40&md5=1f27bf501358f5349156f1dd9c4b7809
1637	Rationally Designed Circularly Arranged Sextuple Molecule with Dimethoxyphenolic Tentacles for Ample Hunting of Cyanide	UGC Sponsored Centre for Advanced Studies, Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050395327&doi=10.1021%2facsomega.8b01155&partnerID=40&md5=5 e051abc02a54e946255b56ed82c18c

1638	Sustainability reporting practices in US and UK: an empirical comparison	Department of Commerce and Business Management, Guru Nanak Dev University, Amritsar, India; Department of Commerce, Khalsa College For Women, Amritsar, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056091576&doi=10.1108%2fJLMA-04-2017-0102&partnerID=40&md5=47f16a4a24816cf107217080495870c9
1639	Biamphiphilic Ionic Liquids-Drug Mixtures: Interactional and Morphological Aspects	Department of Chemistry, UGC-Centre for Advanced Studied, Guru Nanak Dev University, Amritsar, 143005, India; Vice Chancellor, DAV University, Jalandhar, 144001, India; Department of Chemistry, Punjab Technical University, Kapurthala, 144601, India; Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India	5	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049590830&doi=10.1002%2fslct.201801296&partnerID=40&md5=7f3594635848fff7a15b903c8f35ac4a
1640	Development of qualitative pharmacognostic and high-performance thin-layer chromatographic fingerprinting of morphological similar species of genus ficus	Department of Pharmaceutical Sciences, I.K. Gujral Punjab Technical University, Kapurthala, Punjab, India; Department of Pharmacognosy, Khalsa College of Pharmacy, Amritsar, Punjab, India; Department of Pharmacognosy, Shaheed Bhagat Singh College of Pharmacy, Tarn Taran, Punjab, India; Department of Department of Pharmacognosy, School of Pharmaceutical Sciences, Lovely Professional University, Phagwara, Punjab, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049868171&doi=10.22159%2fajpcr.2018.v11i7.25672&partnerID=40&md5=3b0a0fb8a99f15a7e39afd1d8f7968
1641	Re-examining Reputation–Performance Liaison in Indian Context	Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048747077&doi=10.1177%2f2278533718764501&partnerID=40&md5=01774b520634e6f5633cacd77ddda9ff
1642	Performance analysis of ZnO and HfO2 micro-pillars based capacitive antennas	Department of Electronics & Communication Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, India; Department of Physics & Electronics, University of Jammu, Jammu, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85038632230&doi=10.1080%2f09205071.2017.1415823&partnerID=40&md5=71a8599e0996b8b1280d2db1efd42515
1643	A multifactor dimensionality reduction model of gene polymorphisms and an environmental interaction analysis in type 2 diabetes mellitus study among Punjabi, a North India population	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044436875&doi=10.1016%2fj.mgene.2018.01.009&partnerID=40&md5=30a713cd45fb0c8d28c696c8918efb63
1644	Evaluating the resource use efficiency of government colleges in Punjab (India): A data envelopment analysis	Depaprtment of Commerce, Guru Nanak Dev University, Amritsar, India	2	2018	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049350214&doi=10.1108%2fJLMA-03-2017-0074&partnerID=40&md5=e93bf53be39ea51f97ac7b5a74670458
1645	Doping induced changes in structural and optical properties of α -Fe2O3	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	5	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047332333&doi=10.1063%2f1.5032488&partnerID=40&md5=d4e876d2bb1135b46563a6de85772562
1646	Study of self-focusing of Non Gaussian laser beam in a plasma with density variation using moment theory approach	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, Central University of Rajasthan, Ajmer, Kishangarh, 305817, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047331741&doi=10.1063%2f1.5032748&partnerID=40&md5=6687f1c50fbec568273dafb45eb817d1
1647	β -Lactam-Synthion Interceded Diastereoselective Synthesis of 2-Azido- γ -amino Alcohols with Subsequent Transformations to Functionally Enriched Heterocycles	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry, Hindu college, Amritsar, 143001, India; Department of Chemistry, Umea University, Umea, 90187, Sweden	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046629396&doi=10.1002%2fslct.201800512&partnerID=40&md5=f76edb366b034333d1f8c5acf11a94c5
1648	Differential biochemical responses of Brassica Juncea to cadmium stress: Antioxidative defence system, photosynthesis and polyphenol synthesis	School of Bioengineering and Biosciences, Lovely Professional University, Jalandhar (Punjab), 144 411, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar (Punjab), 143 005, India; Indian Institute of Integrative Medicine, CSIR, Jammu, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048778016&partnerID=40&md5=dd8b4818d77c6727443b20412ca5b4cZ
1649	Evaluation of antibacterial potential of Ficus species	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	6	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047811270&partnerID=40&md5=9678dbc255b1e9a4e6620d46b60394db
1650	Assessment of microbial contamination in indoor air of private maternity homes in Moga, Punjab	Department of Medical Laboratory Technology, BIS College of Science and Technology, Moga, Punjab, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Biotechnology, Lovely Professional University, Phagwara, Punjab, India; Department of Food Technology, IKG Punjab Technical University, Kapurthala, Punjab, India; Department of Health, Civil Hospital, Bathinda, Punjab, India	8	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047163362&doi=10.7860%2fJCDR%2f2018%2f34209.11480&partnerID=40&md5=a6f55076cadf5e7158026b7070ca4348

1651	Biotechnological strategies for improvement of Withania somnifera (L.) dunal	Department of Biotechnolgy, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Pharmacology, Veer Surendra Sai Institute of Medical Sciences and Research, Burla, Sambalpur, Odisha, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053098583&doi=10.1007%2f978-981-10-8291-7_9&partnerID=40&md5=d54fc16e95c1c7bfbeb2867cf6459ab7
1652	Pharmacognostic and pharmacological screening of Psidium guajava stem extract for its analgesic potential	Department of Pharmaceutical Sciences, School of Pharmaceutical Sciences, Lovely Professional University, Phagwara, Punjab, 411, India; Department of Biotechnology, Lovely Professional University, Phagwara, Punjab, India; Prime Healthcare, San Diego, CA, United States; Department of Pharmacognosy, Khalsa College of Pharmacy, Amritsar, Punjab, India	12	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052943677&partnerID=40&md5=9b333bcbe392508cfc6d3b8838cca2f41
1653	Effect of fermentation on chemical changes in Vitis vinifera fruits used in alcoholic ayurvedic formulation	Department of Biochemistry, Khalsa College of Pharmacy and Technology, Amritsar, Punjab, India; Department of Pharmacognosy and Phytochemistry, Khalsa College of Pharmacy, Amritsar, Punjab, India; Department of Pharmaceutical Sciences, Faculty of Pharmaceutical Sciences, Shoolini University, Solan, Himachal Pradesh, India; Department of Chemistry, Khalsa College, Amritsar, Punjab, India; Department of Pharmacognosy, School of Pharmaceutical Sciences, Lovely Professional University, Phagwara, Punjab, India; Prime Healthcare, San Diego, CA, United States	7	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052941381&partnerID=40&md5=d91acb164a94fdf41ca0d23c10dd325c
1654	Ab initio scrutiny of endohedral C20 fullerenes implanted in between gold electrodes	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143001, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042856807&doi=10.1007%2fs00894-018-3594-y&partnerID=40&md5=2401cf1f6c340629332d25c796008770
1655	Dependence of thermal sensitivity of LPFG on waveguide and material parameters	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Electronics and Communication Engineering Department, Chitkara University, Atal Shiksha Kunj, Himachal Pradesh, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030677083&doi=10.1007%2fs11107-017-0740-x&partnerID=40&md5=b56ec00e84a0ddbe8c0005581ee7e197
1656	Analysis of workspace awareness tools in distributed software development	Dept. of Computer Science, Guru Nanak Dev University, Amritsar, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048101448&doi=10.1109%2fINTELCCT.2017.8324051&partnerID=40&md5=b7a55aa5adeec0520e49e042835c06fb
1657	Modeling the Elements and Effects of Global Viral Advertising Content: A Cross-cultural Framework	Department of Business Management, Guru Nanak Dev University Regional Campus, Gurdaspur, Punjab, India; University Business School, Guru Nanak Dev University, Amritsar, Punjab, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041505084&doi=10.1177%2f0972262917750225&partnerID=40&md5=7e58229767e914c086bdbcf3c14d6729
1658	Influence of anchors on the quantum transport through benzene based molecular wire	Guru Nanak Dev University, Amritsar, 143005, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85043287096&doi=10.1166%2fjbens.2018.1492&partnerID=40&md5=9d59df85a378a49c922981ebe4f67df2
1659	Li1.11–yTa0.89–3yTi0.11+4yO3 M-phase solid solutions: structural, dielectric and optical characterization	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85034590103&doi=10.1007%2fs10854-017-8260-0&partnerID=40&md5=70e1876e928b58235a6d3b47b50ba2c6
1660	Modified KdV equation for trapped ions in polarized dusty plasma	Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041088840&doi=10.1063%2f1.5020402&partnerID=40&md5=7d090a6487cac4e2ae4d2e1f993bbd55
1661	Deciphering strategies for salt stress tolerance in rice in the context of climate change	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092588589&doi=10.1016%2fB978-0-12-814332-2.00006-X&partnerID=40&md5=456da6df5714b50fae00d7390268b23a
1662	Stress-induced metabolite production utilizing plant hairy roots	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069804540&doi=10.1007%2f978-981-13-2562-5_6&partnerID=40&md5=1dc4960981e4c7db9e1ec013be094164
1663	Deranged metabolic profile and identification of biomarkers in the vitreous humour of patients with proliferative diabetic retinopathy	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Sardar Bahadur Dr Sohan Singh Eye Hospital, Amritsar, Punjab, India; Cytogenetics Laboratory, Greenwood Genetic Center, South Carolina, Greenwood, SC, United States; Department of Microbiology, Government Medical College, Amritsar, India; Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, India	8	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055202581&doi=10.2174%2f0929866525666180821120548&partnerID=40&md5=c4e6742b30c38408d2acfe50d6cae02e

1664	Estimation of Natural Radionuclides and Exhalation Rate in Surface Soils of Four Districts of Haryana, India	Department of Physics, Chandigarh University, Gharuan, Mohali, 140 413, India; Department of Physics, DAV College, Amritsar, 143 001, India; Department of Physics, Khalsa College, Amritsar, 143 001, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143 001, India	6	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057815084&doi=10.1007%2fs12594-018-1090-8&partnerID=40&md5=388c2b91a7a497d1290fd6dd994902a5
1665	Physico-Chemical Studies on Binary Mixtures of 1,4-Dioxane and Alkan-1-ols at 298.15 K	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India	7	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056808631&doi=10.1007%2fs40010-017-0387-0&partnerID=40&md5=d9c0c9a6650f68eb167e565a20d89dea
1666	What determines the tourist satisfaction? Evidence from Jammu and Kashmir - India	Punjab School of Economics, GNDU, Amritsar, Punjab, India; Department of Humanities and Social Sciences, IIT Madras, Chennai, Tamil Nadu, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049174975&partnerID=40&md5=8f625e61fed92f89166908bcb70d7f21
1667	New product announcement: spokesperson a manifestation of increasing firm value	University Business School, Guru Nanak Dev University, Amritsar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057523912&doi=10.1108%2fJoEM-03-2016-0056&partnerID=40&md5=a40c6a3a3fcee879e74eaf29c3cf76ee
1668	Dietary antioxidants and infectious diseases	Department of Microbiology, Guru Nanak Dev University, Amritsar, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079785216&doi=10.1007%2f978-981-13-1577-0_16&partnerID=40&md5=6de2790d9d56b80d4b2593c68ae576
1669	Recurrent vulvovaginal infections: Etiology, diagnosis, treatment and management	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065490813&doi=10.1007%2f978-981-13-1577-0_14&partnerID=40&md5=9fce05d76cf0b9ef841666de982875ed
1670	Synthesis and Characterization of Rod Like Nano-sized Cobaltamine Complexes as Textile Dyeing Agents	Department of Chemistry (UGC & DST-FIST Sponsored), Saurashtra University, Rajkot, Gujarat, 360005, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Adam Mickiewicz University, Poznan, 61-614, Poland	7	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056184244&doi=10.1002%2fslct.201802593&partnerID=40&md5=db077836e219bf712c2b151c9385caad
1671	Intermittent fasting-dietary restriction as a geroprotector	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	7	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079763206&doi=10.1007%2f978-981-13-1699-9_13&partnerID=40&md5=47b89709be4d6b50b0966323922630ff
1672	Passive Optical Network Evolution to Next Generation Passive Optical Network: A Review	Department of Electronics and Communication Engineering, Punjabi University, Patiala, India; Department of Electronics and Communication Engineering, GNDU Regional Campus, Gurdaspur, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071031583&doi=10.1109%2fWVECON.2018.8782066&partnerID=40&md5=8a84d947a2809dd60fefe0b0c1170903
1673	Experimental Evaluation of Performance of Underwater Free Space Optical Link in the Presence of Air Bubbles	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070963656&doi=10.1109%2fWVECON.2018.8782080&partnerID=40&md5=a79333ac87c364a573ed57fa6eee25e83
1674	Synthesis and Characterization of LNT (Li2O- Nb2O5-TiO2) Based Dielectric Ceramics	Dept. of Electronics Technology, GNDU, Amritsar, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070952742&doi=10.1109%2fWVECON.2018.8782073&partnerID=40&md5=53909659de4cadf26973264d68ccc5e2
1675	Dendrocalamus strictus Charcoal: An efficient adsorbent for removal of Cu (II) ions from aqueous solution and its applicability in the reduction of genotoxic potential of Cu (II) ions	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057550364&doi=10.2175%2f106143017X15131012188088&partnerID=40&md5=01ccbeb3ce809f4e7b12d66f2f2928ad
1676	Comparative evaluation of NANO transport properties for DNA nucleobase based molecular junction devices	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055910313&doi=10.1007%2fs00894-018-3856-8&partnerID=40&md5=48b822d098182a1deb14e77328de8710
1677	Aggregation-induced emission (aie): A versatile tool for chemo/biosensing	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064174306&doi=10.1007%2f978-3-319-99037-8_15&partnerID=40&md5=c6b45e66df5ddd6536c9385db98647f2
1678	Diabetic retinopathy: How far are we from personalized medicine?	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India; Head of Cytogenomics, Global Laboratory Services, Perkin Elmer, Waltham, MA, United States; Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054049130&doi=10.4155%2ffmc-2018-0233&partnerID=40&md5=1c4a628e920f041bbf82e1dac0240671
1679	Simulation of Terahertz Multimode Propagation in Parallel Plate Waveguide of Metal	Guru Nanak Dev University, Department of Physics, Amritsar, 143005, India; Indian Institute of Technology, Department of Physics, Guwahati, Assam, 781039, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055500960&doi=10.1109%2fWRAP.2017.8468570&partnerID=40&md5=feb1dca27e31e776dca8205a52b95971

1680	Titanium based mixed ligand complexes: Synthesis, spectroscopic and in vitro antiproliferative studies	Department of Chemistry, Govt Degree College Jukhala District BilaspurHimachal Pradesh 174033, India; Department of Chemistry, National Institute of Technology, Hamirpur, Himachal Pradesh 177005, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Biotechnology, NMMEC, Maharishi Markandeshwar Deemed to be university, Mullana, Ambala, Haryana 133207, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062351855&doi=10.1080%2f24701556.2019.1569690&partnerID=40&md5=f03cfa6ec01474f58fe517e990d82f37
1681	Microstructure and dielectric properties of LNT (Li2O-Nb2O5-TiO2) based dielectric ceramics synthesized by solid state reaction method	Dept. of Electronics Technology, GNDU, Amritsar, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069193583&doi=10.1109%2fHMETE.2018.00072&partnerID=40&md5=b6932590d8c5627e2ffed19502e9b240
1682	Potentially active fluoresent drug polymer nanoconjugate for antibacterial drug delivery	Department of Chemistry, Lovely Professional University, Phagwara, 144 411, India; Department of Chemistry, Panjab University, Chandigarh, 160 014, India; Toxicology Division, Forensic Science Laboratory, Phase-IV, Mohali, 160 059, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056488758&doi=10.4172%2fpharmaceutical-sciences.1000428&partnerID=40&md5=f619a048840d55dc99667ff7631fd8e4
1683	Arbitrary amplitude dust-ion acoustic solitary structures in electronegative plasma	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052376232&doi=10.1007%2fs10509-018-3414-y&partnerID=40&md5=80ac15ebc4ce436de3c6914e8e381422
1684	Self-focusing of q-Gaussian laser beam in relativistic plasma using exponential density based transition	Department of Applied Science, Lyallpur Khalsa College of Engineering, Jalandhar, 144001, India; Punjab Technical University, Kapurthala, 144601, India; Department of Applied Science, Amritsar College of Engineering and Technology, Manawala, 143115, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; School of Physics and Materials Science, Thapar Institute of Engineering and Technology (TIET), Patiala, Punjab, 147004, India	6	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052396296&doi=10.1063%2f1.5051290&partnerID=40&md5=7979af0cb36b6bdf6979d001c66d4b45
1685	Managerial Remuneration in India: Analysing Trends before and during the Economic Slowdown	University School of Financial Studies, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Commerce, SSSS College of Commerce for Women, Amritsar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85106715382&doi=10.1177%2f0258042X18763417&partnerID=40&md5=5ca87b0080ad158d4718d5afe472c2a1
1686	Improvement of Uniformity of Illumination for Circular LED Arrangement in VLC System	Guru Nanak Dev University, Dept of Electronics Technology, Amritsar, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081951115&doi=10.1109%2fHCRIEECE44171.2018.9009225&partnerID=40&md5=cebffb026c855b2616496c57639820d8
1687	Contemplating nanometer scale transport characteristics through aromatic molecules based molecular devices	Department of Electronic Technology, Guru Nanak Dev University, Amritsar, Punjab, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050354035&partnerID=40&md5=bf1c9187f0357f63631b1c0c7405f243
1688	Hybrid artificial bee colony and tabu search based power aware scheduling for cloud computing	Department of Computer Science and Engineering, Guru Nanak Dev. University, Amritsar, Punjab, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049386591&doi=10.5815%2fijisa.2018.07.04&partnerID=40&md5=bfb91b1b31d9e128a8d9ff79fc7d571d
1689	Dynamic chirality in mass regions A=105 and A=130	Institute for Nuclear Research and Nuclear Energy, Bulgarian Academy of Sciences, Sofia, 1784, Bulgaria; INFN, Laboratori Nazionali di Legnaro, Legnaro, I-35020, Italy; Horia Hulubei NIPNE, Bucharest-Magurele, R-76900, Romania; Inter University Accelerator Centre, New Delhi, 110067, India; Inter University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Department of Physics, Indian Institute of Technology Bombay, Powai, Mumbai, 400076, India; Department of Physics and Astrophysics, University of Delhi, Delhi, 110007, India; Nuclear Physics Department, Andhra University, Visakhapatnam, 530003, India; Department of Physics, Guru Nanak Dev University, Punjab, Amritsar, 143005, India; Nuclear Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Indian Institute of Technology, Kharagpur, 721302, India; Department of Physics, Panjab University, Chandigarh, India; Department of Physics, Banaras Hindu University, Varanasi, India; Department of Physics, Faculty of Science, Zagreb University, Zagreb, Croatia	19	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048391673&doi=10.1088%2f1742-6596%2f1023%2f1%2f012020&partnerID=40&md5=99ac314560352ca4b1d2d18ffe8baa4e

1690	Luminescence in 2-dimensional WS2 nanosheets	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	5	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047351841&doi=10.1063%2f1.5032466&partnerID=40&md5=5169e374553c9c5dc703583dcd0a97bd
1691	Structural and magnetic characterization of Ti doped cobalt ferrite (CoFe2O4)	Multifunctional Materials Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Physics, D. A. V. College, Sector-10, Chandigarh, India	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047296881&doi=10.1063%2f1.5033093&partnerID=40&md5=53708d7e77df58594f5a62b50a9b074c
1692	Negative differential resistance observation in complex convoluted fullerene junctions	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, 143001, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030976878&doi=10.1063%2f1.4985796&partnerID=40&md5=b1a6030111bf538138f24ee1cfb792c8
1693	Cyclopalladation of azobenzenes and their reactivity towards N-substituted imidazolidine-2-thiones and allied ligands: Synthesis, structures, spectroscopy and ESI-mass studies	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemistry, Keene State College, Keene, NH 03435-2001, United States	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042637796&doi=10.1016%2fi.iorganchem.2018.02.037&partnerID=40&md5=2e4a66d5d5dda68d85e942851be2b0e0
1694	Synthesis and transport characterization of electrochemically deposited CdTe nanowires	Department of Physics, Guru Nanak Dev University, Amritsar, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045745013&doi=10.1063%2f1.5028988&partnerID=40&md5=3f4c10de8c8e14235bab448162051458
1695	Effect of molybdenum on gamma ray shielding and structural properties of PbO-B2O3 glasses	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045734128&doi=10.1063%2f1.5028821&partnerID=40&md5=c9520b103a3495baef771fe51710b18d
1696	Pharmacognostic and pharmacological screening of Ageratum conyzoides stem extract for its antianxiety potential	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Health Care Aid, St. Bonafice Hospital, 409 Tache Avenue, Winnipeg, Canada; Department of Pharmaceutical Sciences, School of Pharmaceutical Sciences, Lovely Professional University, Phagwara, Punjab 144 411, India	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054936389&partnerID=40&md5=dafb086f439504098e0d78ad5065f7d5
1697	Morphological and anatomical studies of stem of Ageratum conyzoides	Department of Pharmaceutical Sciences, Lovely Professional University, Phagwara, Punjab, 144 411, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143 001, India; Prime Healthcare, San Diego, CA, United States; Department of Pharmaceutical Sciences, Maharshi Dayanand University, Rohtak, Haryana, 124 001, India	9	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052952308&partnerID=40&md5=4c384fe799e9b53e9dfb12d5d4f873f3
1698	Pharmacognostic standardizations of traditionally used hepatoprotective plant fraxinus micrantha	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143 005, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052925685&partnerID=40&md5=da227320853576ce7b8cb9a4c612d7e6
1699	Effect of Ion Beam on Dust-Acoustic Waves under Transverse Perturbations in Dusty Plasma	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Applied Sciences, Khalsa College of Engineering and Technology, Amritsar, 143001, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045564433&doi=10.1109%2fTPS.2017.2758805&partnerID=40&md5=1dd1525875c46520611470083356d329
1700	Effect of Nonthermal Electrons and Ions on Longitudinal Dust Acoustic Solitary Waves in a Strongly Coupled Dusty Plasma	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031809975&doi=10.1109%2fTPS.2017.2755865&partnerID=40&md5=c75c794a590059129dc706464b76360a
1701	Cu(II) ion based 1D coordination polymer: Its thermal, fluorescence properties, Hirshfeld surface analysis and theoretical calculations	Department of Applied Chemistry, Giani Zail Singh Campus College of Engineering & Technology, Bathinda, Punjab, India; Department of Chemistry, Indian Institute of Technology, New Delhi, India; Department of Chemistry, Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, India; Department of Chemistry, Hindu College, Amritsar, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048862895&doi=10.1080%2f15421406.2018.1461800&partnerID=40&md5=1ce77872baa64d9b92499b7bfed8908e
1702	Investigating the influence of electrode Miller indices alteration on electronic transport in thiophene-based molecular junctions	Department of Electronics Technology, Guru Nanak Dev University, Teacher's Flat No. 21, Residential Area, Amritsar, Punjab 143005, India; Department of Electronics Technology, Guru Nanak Dev University, A-7 , Residential Area, Amritsar, Punjab 143005, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University Regional Campus, 144 Karol Bagh, opp. GNDU Regional campus PO Choggitti, Jalandhar, Punjab 144009, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042269798&doi=10.1007%2fs00894-018-3615-x&partnerID=40&md5=4e6c576a4948aab0a4bdc00a4241b145
1703	Nurturing a garden of IT talent at MindTree Limited	Department of Commerce, Guru Nanak Dev University, Amritsar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041838209&doi=10.1002%2fjoe.21849&partnerID=40&md5=aa009676ea60afe06bf5ae6fdd2e0e07

1704	Acetylenic Ester Promoted Tandem Ring Opening of Dienyl Thiazolidin-4-ones and Cyclizations: A Facile and Chemoselective Synthesis of Functionalized Pyridine-2-carboxylates	Department of Chemical Sciences, I. K. Gujral Punjab Technical University Kapurthala, Punjab, 144603, India; Department of Chemistry, Guru Nanak Dev University Amritsar, Punjab, 143005, India; Drug Discovery Research Centre (DDRC), Translational Health Sciences and Technology Institute (THSTI), Faridabad, 121001, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85035756016&doi=10.1055%2fs-0036-1591721&partnerID=40&md5=05c9f777da1524bb54afd3272f67a4bf
1705	Corrigendum to “Investigation on structural and microwave absorption property of Co ²⁺ and Y ³⁺ substituted M-type Ba-Sr hexagonal ferrites prepared by a ceramic method” [J. Alloys Compd. 695 (2017) 792–798][S0925838816330146](10.1016/j.jallcom.2016.09.251)	Research Scholar, Department of Electronics and Communication Engineering, I.K.G. Punjab Technical University, Kapurthla, India; Department of Electronics and Communication Engineering, Rayat Bahra Institute of Engineering and Nanotechnology, Hoshiarpur, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Physics, University School of Sciences, Gujarat University, Ahmedabad, Gujrat 380 009, India	6	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85033368969&doi=10.1016%2fi.iallcom.2017.11.002&partnerID=40&md5=b4d24f3d36938c762f3e7681c01655b3
1706	Crystal engineering of versatile Hg(II) halides complexes of N,N,N',N'-tetraalkyl substituted 3,5 pyridinedicarboxamides	Department of Chemistry, Centre of Advance Studies-II, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2018	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031290942&doi=10.1016%2fi.molstruc.2017.10.015&partnerID=40&md5=57e8a28ec95d062fe4cb4537e558b7d9
1707	Dust ion-acoustic shock waves in magnetized pair-ion plasma with kappa distributed electrons	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041071080&doi=10.1063%2f1.5020406&partnerID=40&md5=88e1496f47649da9dc18135b09150d1f
1708	Fuzzy link cost estimation based adaptive tree algorithm for routing optimization in wireless sensor networks using reinforcement learning	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus Fattu Dyinga, Kapurthala, Sultanpur Lodhi, Punjab 144606, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab 144001, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064836025&doi=10.2174%2f2210327908666180706124358&partnerID=40&md5=02dbe987afeed591f54997e55aa439d8
1709	A bisubstrate reagent orchestrating adenosine triphosphate and L-tyrosine and making tyrosyl adenylate: Partial mimicking of tyrosyl-tRNA synthetase	Department of Chemistry and Centre for Advanced Studies, University with Potential for Excellence, Guru Nanak Dev University, Amritsar, 143005, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058461007&doi=10.1039%2fc8ob02866d&partnerID=40&md5=fd283ccb5339a71438609c1c633e570
1710	Performance Evaluation of Hybrid FSO-SACODMA System under Different Weather Conditions	PTU, Kapurthala, Punjab, India; Department of ECE, BCET Gurdaspur, Gurdaspur, Punjab, India; Department of Electronics, GNDU RC, Jalandhar, Punjab, India; Department of PGP, IIM, Amritsar, Punjab, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057623528&doi=10.1515%2fjoc-2018-0172&partnerID=40&md5=5b3213c4c16921418cfa592526094da
1711	A novel compact MIMO Planar inverted-F Antenna (PIFA) for future 5G wireless devices	Guru Nanak Dev University, Punjab, India; Thapar Institute of Engineering and Technology, Deemed University, Punjab, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053728222&doi=10.14419%2fijet.v7i4.5.20099&partnerID=40&md5=f27e95b53f131082a47c67f34cd36fec
1712	Energy efficient cognitive body area network (CBAN) using lookup table and energy harvesting	Department of Electronics and Communication Engineering, IKG-PTU, Jalandhar, Kapurthala, Punjab, 144603, India; Department of Electronics and Communication Engineering, DAVIET, Jalandhar, Punjab, India; Department of Electronics and Communication Engineering, GNDU Regional Campus, Jalandhar, Punjab, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053315359&doi=10.3233%2fjifs-169669&partnerID=40&md5=1ab8bfff1af0e5fa5025cfc99423f51a9
1713	Accurate Prediction of Life Style Based Disorders by Smart Healthcare Using Machine Learning and Prescriptive Big Data Analytics	Department of CSA, DAV University, Jalandhar, India; Guru Nanak Dev University, Amritsar, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046376275&doi=10.3233%2f978-1-61499-814-3-428&partnerID=40&md5=ce992a9dbd07d276cb7ab9dd7d8bfb47
1714	Proposed Better Sequence Alignment for Identification of Organisms Using DNA Barcode	Department of Computer Science, Guru Nanak Dev University Regional Campus, Gurdaspur, Punjab, India; Department of Computer Science, Shanti Devi Arya Mahila College Dinanagar, Gurdaspur, Punjab, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85034266633&doi=10.1007%2f978-981-10-4555-4_9&partnerID=40&md5=ee44192526984a98e0aeade7216d1f6
1715	Modulation of hydration characteristics of carbohydrates in aqueous medium of γ -amino butyric acid via volumetric, rheological and time-domain longitudinal NMR relaxation studies	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	5	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85034093561&doi=10.1016%2fi.molliq.2017.11.059&partnerID=40&md5=f6387624e91e96479ddfeeceb0cbc915
1716	A conceptual framework for analysing the source code dependencies	Department of CSE, RIEIT, Railmajra, India; Department of CSE, GNDU, Amritsar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031412239&doi=10.1007%2f978-981-10-3773-3_33&partnerID=40&md5=a0683deb1f4f4c1a83ceeed924f283ba

1717	Dicarboxamide polymorph derivatives for trace-level electrochemical sensing of Cu(II) supported with crystal structure and theoretical studies	Department of Chemistry, UGC Sponsored Centre of Advance Studies-I, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Sri Guru Granth Sahib World University, Chemistry Department, Fatehgarh Sahib, Punjab 140407, India; School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	7	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058144199&doi=10.1039%2fc8ay01967c&partnerID=40&md5=d6339a27063bd24f6f8ea98e214e2119
1718	Gamma ray shielding properties at 129.5 MBq and structural investigations of the Bi 2 O 3 –B 2 O 3 –K 2 O–Li 2 O–V 2 O 5 glass system	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064252704&doi=10.13036%2f17533562.59.6.056&partnerID=40&md5=370d359d4a9f43b5371e4b624601f5a4
1719	Effect of flipped classroom instructional strategy on self directed learning	Department of Education, Guru Nanak Dev University, Amritsar, India; Faculty of Education, Guru Nanak Dev University, Amritsar, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063013550&doi=10.5958%2f0976-5506.2018.02228.3&partnerID=40&md5=e07daa28f534cfb706131f424a97c17a
1720	Performance of Indian National Stock Exchange Indices: A comparative analysis	Guru Nank Dev University, The Department of Commerce, Grand Trunk Road, Off. NH1, Amritsar, Punjab 143001, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061099987&partnerID=40&md5=bc37e0929039016630426f05e76b9636
1721	Assessment of antioxidative and ameliorative potential of aqueous extract of leaves of Thuja orientalis (Platyclusus Orientalis [L.])	Department of Zoology, Cytogenetics Laboratory, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058331775&doi=10.22159%2fajpcr.2018.v11i12.28205&partnerID=40&md5=7ac97f2072990eb35e3e0c6e37fd5e5
1722	Naringin reveals ameliorative property over elevated oxidative stress levels in animal models	Department of Zoology, Khalsa College, Amritsar, Punjab, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058330531&doi=10.22159%2fajpcr.2018.v11i12.25318&partnerID=40&md5=83492cfef7cc650dd5fce98eb02e7851
1723	Sorption technique as a tool for reduction of genotoxicity	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058131553&doi=10.1177%2f0748233718803018&partnerID=40&md5=a5ebb22520f43251930f79bba234230a
1724	Enterococci as nosocomial pathogen	Department of Microbiology, Guru Nanak Dev University, Amritsar, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079825606&doi=10.1007%2f978-981-13-1577-0_15&partnerID=40&md5=28baa7eb4135a6714e5d96b42d7b5b3e
1725	Probiotic lactobacilli, infection, and immunomodulation	Department of Microbiology, Guru Nanak Dev University, Amritsar, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079819081&doi=10.1007%2f978-981-13-1577-0_17&partnerID=40&md5=5dffcae652f9688be26d2c57b78bd9da
1726	Interval type-2 fuzzy Kalman filter aided individual channel estimation in MIMO relay systems	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, India; Department of Electronics and Communication Engineering, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052791698&doi=10.1002%2fdac.3792&partnerID=40&md5=ecfe9e2287ac87cefaafed1b0817e67d
1727	Assessment of revenue efficiency of Indian scheduled commercial banks	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India; Department of Commerce, Khalsa College, Amritsar, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058230709&doi=10.1108%2fJLMA-04-2017-0084&partnerID=40&md5=65afd527be2fd7b6c95e2fb1746d9936
1728	Demographic Factors in the Evaluation of Students' Satisfaction towards Quality in Higher Education: A Study of Government Colleges of Punjab (India)	Senior Research Fellow, Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85106743848&doi=10.1177%2f0258042X18791611&partnerID=40&md5=6bc74d74db8b414c142bf5b0c6e45cad
1729	Simulation and Analysis of Uniformity of Illuminance in Indoor VLC System	Dept of Electronics Technology, Guru Nanak Dev University, Amritsar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070993900&doi=10.1109%2fWECON.2018.8782081&partnerID=40&md5=a3821ad5ef0e6c56b0848316beb993f3
1730	Bisbenzimidazole based molecule as violet fluorescent material	Department of Physics, Guru Nanak Dev University College, Patti, 143416, India; Material Science Research Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, Guru Nanak Dev University College, Narot Jaimal Singh, 145026, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056252927&doi=10.1063%2f1.5067344&partnerID=40&md5=925540e7e7172f89d9a277242b90473b
1731	Intermittent Fasting-Dietary Restriction as a Biological Hormetin for Health Benefits	Medical Biotechnology Laboratory, Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India	4	2018	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082036160&doi=10.1016%2fB978-0-12-814253-0.00008-5&partnerID=40&md5=c9c03f6f73ed27b9b40a557329671628

1732	Copper (50 MeV) and Oxygen (84 MeV) Ion Irradiation Probed Thermal, Structural and Optical Behavior of Polyethylene Terephthalate	Department of Physics, Lovely Professional University, Punjab, India; Department of Applied Science, Beant College of Engineering and Technology, Punjab, India; Department of Physics, Guru Nanak Dev University, Punjab, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054569242&doi=10.1080%2f00222348.2018.1516335&partnerID=40&md5=f473a6db0bf529f877b4858789a4a40c
1733	Microwave attenuation of cobalt-tin substituted barium-strontium hexagonal ferrite	Electronics and Communication Engineering Section, Yadavindra College of Engineering, Punjabi University Guru Kashi Campus, Talwandi Sabo, Punjab, India; Department of Electronics and Communication Engineering, Lovely Professional University, Jalandhar-Punjab, India; Department of Electronics and Communication Engineering, Rayat Bahra Institute of Engineering and Nanotechnology Hoshiarpur, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056460955&doi=10.1109%2flics.2018.00054&partnerID=40&md5=d0946fc6f53edea5bba5281939696377
1734	Effect of seasonality and fruit ripening stages on bioactive constituents and antioxidant potential of guava fruit cultivars	Centre of Food Technology, University of Allahabad, India; Khalsa College, Amritsar, Punjab, India; Kulbhaskar Ashram Degree College, Allahabad, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060886072&partnerID=40&md5=91104a526855b76308e45543c367deb7
1735	Cost efficiency analysis of scheduled commercial banks: empirical evidence from India	Guru Nanak Dev University, Amritsar, India; Department of Commerce, Khalsa College, Amritsar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053253430&doi=10.1108%2fjmd-01-2017-0037&partnerID=40&md5=ed4126336540a7c4a12e62e269968ff8
1736	Comparative Analysis of Different Statistical Fading Channel Models for WIMAX System	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054050851&doi=10.1109%2fctceec.2017.8454993&partnerID=40&md5=5df818e05abd06fce236c19115ae803d
1737	Non-performing assets (NPAS) of scheduled commercial banks (SCBs) in India: Analytical revelations	Guru Nanak Dev University, Punjab School of Economics, Amritsar, Punjab 143005, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060526811&partnerID=40&md5=b22c18117df448ef31dee9de84d21a75
1738	A practitioner's guide to designing employee surveys	Indian Institute of Technology, Bombay, India; Guru Nanak Dev University in Amritsar, India; XLRI School of Management in Jamshedpur, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056285045&doi=10.1002%2fjoe.21892&partnerID=40&md5=71b5932bfdea325ce7a9d989abb7343f
1739	Dynamics of resonant energy transfer in one-dimensional chain of Rydberg atoms	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Atomic, Molecular and Optical Physics Division, Physical Research Laboratory, Navrangpura, Ahmedabad 380009, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053223577&doi=10.1140%2fepjd%2fe2018-90205-9&partnerID=40&md5=2735e1bcaf99e081317234ab8ef11298
1740	Structural, surface morphological and ferroelectric properties of Ca doped BaTiO3 solid solutions	Material Science and Characterization Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Multifunctional Material Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052387967&doi=10.1063%2f1.5052085&partnerID=40&md5=56d8353d397ad7426818443672c223b7
1741	Effect of pruning systems on growth and yield traits of greenhouse grown bell pepper (Capsicum annum L. var. grossum)	Department of Agriculture, Khalsa College, Amritsar, Punjab 143 001, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85108535965&doi=10.18805%2fjare.A-4997&partnerID=40&md5=60a3fa015d44d33548fede6a3db08b47
1742	DNA-A prominent candidate for molecular devices: A review	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143001, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057410023&doi=10.1166%2fjbs.2018.1549&partnerID=40&md5=54edc646dbd065ce34db2e4976d59c5
1743	Effect of pruning systems on growth and yield traits of greenhouse grown bell pepper (Capsicum annum L. var. grossum)	Department of Agriculture, Khalsa College, Amritsar, Punjab, 143 001, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051817860&doi=10.18805%2fjare-4997&partnerID=40&md5=331ef09ae12d5a461860ffdbbf86fa2c
1744	Effect of polarization force on small amplitude dust kinetic Alfvén solitary and rogue waves in a nonextensive plasma	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051755488&doi=10.1016%2fj.physa.2018.08.147&partnerID=40&md5=4972bc701f5d2c409ed2f70057c0f27d
1745	Role Reversal of the Carboxylate Group from Coordination to Hydrogen Bonding Only, in Structurally Diverse Metal-2-amino,5-Nitro-benzoates: A First Report	Department of Chemistry, UGC, Sponsored Centre of Advance Studies II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Supramolecular and Material Chemistry Lab, School of Physical Sciences, Jawaharlal Nehru University, New Delhi, 110067, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049837244&doi=10.1021%2facs.cgd.8b00771&partnerID=40&md5=85744b2858a3acab876098383f311482
1746	Mainstreaming nuclear disaster risk reduction in India	School of Social Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	1	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063493951&doi=10.1007%2f978-981-10-8845-2_6&partnerID=40&md5=335b6f2b5a67ae327c7bafc3967c8964

1747	A Short Proof That Lebesgue Outer Measure of an Interval Is Its Length	Guru Nanak Dev University, Amritsar, India	1	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047497148&doi=10.1080%2f00029890.2018.1452512&partnerID=40&md5=9daafb75bad05e3d1f6f2beb3e6fd4e4
1748	Predictive Analysis and Forecasting of SP CNX NIFTY50 using Stochastic Models	Department of Computer Science and Engineering, Guru Nanak Dev University, Jalandhar, India; Department of Computer Science and Engineering, NIT, Delhi, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065673857&doi=10.1109%2f1CSCCC.2018.8703331&partnerID=40&md5=5e3d82b5233ab39df595c1dd6e7beba1
1749	Morphologically Robust Discrete Cosine Transform based Lossless ECG Compression with Access Control Quality	Department of ECE, Dr. B.R. Ambedkar NIT Jalandhar, GNDU, RC, Jalandhar, India; Department of ECE, Guru Nanak Dev University, Regional Campus, Jalandhar, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065661600&doi=10.1109%2f1CSCCC.2018.8703306&partnerID=40&md5=5db2516ec24111b57049dbb0b76af2
1750	Sentiment Analysis of Social Media Reviews using QOS Parameterization	Faculty of Computer Science and Engineering, Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065659253&doi=10.1109%2f1CSCCC.2018.8703351&partnerID=40&md5=95a38dc0f088e570ddd6a7ec876ed843
1751	Reduction of Accumulated Dispersion in 1Tbps S-band Long Haul DWDM Systems using ITU-653,FITU-655 and Corning Leaf fibers	Guru Nanak Dev University RC, Sultanpur Lodhi, Dept. of ECE, Amritsar, India; Guru Nanak Dev University, Dept. of Electronics Technology, Amritsar, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081982557&doi=10.1109%2f1CRIEICE44171.2018.9008453&partnerID=40&md5=2316064e6d17f6dfd3e1823c248a159c
1752	Performance Evaluation of Ti:LiNbO3 Mach-Zehnder Interferometer Switch at 1.3μm, 1.46μm and 1.55μm	Guru Nanak Dev University, Department of Electronics Technology, Amritsar, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081973490&doi=10.1109%2f1CRIEICE44171.2018.9008441&partnerID=40&md5=761341cad87a401bc905dced93c0f672
1753	A new intuitionistic fuzzy divergence measure and its applications to handle fault diagnosis of turbine	Department of Mathematics, Guru Nanak Dev University, Amritsar, 143005, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055883943&partnerID=40&md5=7b835f9daa2421c13a26a51b0ea2c4ad
1754	Infection of potato virus S and M in tomato in North-western India	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Institute of Himalayan Bioresource Technology, Palampur, India; Post Graduate Department of Biotechnology, Khalsa College, Amritsar, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049428771&doi=10.1007%2fs42161-018-0057-3&partnerID=40&md5=cff98cdd9a0be0948dad45522e158be6
1755	An intelligent system for predicting and preventing Chikungunya virus	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050165204&doi=10.1109%2f1CCECD.2017.8390109&partnerID=40&md5=b41dbad4a36f701b303ab6bca3c1eaa2
1756	Corrigendum to “Synthesis of 5-nitro-salicylaldehyde-N-substituted thiosemicarbazones of copper(II): Molecular structures, spectroscopy, ESI-mass studies and antimicrobial activity” [Inorg. Chim. Acta 461 (2017) 248–260](S0020169317302116)(10.1016/j.ica.2017.02.032)	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143 005, India; Departamento de Quimica Inorganica, Facultad de Farmacia, Universidad de Santiago, Santiago, 15782, Spain; Department of Chemistry, Keene State College, Keene, NH 03435, United States	8	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042654340&doi=10.1016%2fj.ica.2018.02.031&partnerID=40&md5=11abc3905dab16decacaf7dc09d5ac02
1757	Investigation of phase segregation using Rietveld refinement in Mg doped BaTiO3 solid solutions and their ferroelectric properties	Ceramics and Solar Cell Material Lab, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Multifunctional Material Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047363422&doi=10.1063%2f1.5032632&partnerID=40&md5=c12743fc4a4fec90ff6d510623ddea47
1758	Investigation of the effect of doping of Cr2O3 on bioactivity properties of the SiO2-CaO-P2O5 bioceramics	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Departement of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India	6	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047358555&doi=10.1063%2f1.5032920&partnerID=40&md5=43f5c65b3d36b9ea89f9c8c0c8c42f4a
1759	Multiferroic properties in NdFeO3-PbTiO3 solid solutions	Multifunctional Materials Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Physics, D.A.V. College, Sector-10, Chandigarh, India	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047355802&doi=10.1063%2f1.5033094&partnerID=40&md5=950e52d37041fd93093fee562fd07b7
1760	Structural and magnetically enhanced ferroelectric properties of Nd3+ and Fe3+ substituted Pb(Zr0.45Ti0.55)O3 ceramics	Multifunctional Materials Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047341678&doi=10.1063%2f1.5032853&partnerID=40&md5=4b6c5d92444823fda6b8aff67b9b9f0
1761	Induced dipole-dipole coupling between two atoms at a migration resonance	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047340421&doi=10.1063%2f1.5033235&partnerID=40&md5=b153f8bc116aa872353b496e21769ad6
1762	Effect of Pb2+ substitution at A-site on structural and magnetic properties of LaMnO3	Multifunctional Materials Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Physics, D.A.V College, Sector-1, Chandigarh, India	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047322111&doi=10.1063%2f1.5033095&partnerID=40&md5=0062be0f5bae5373e3ae09877172867f
1763	Synthesis and characterization of structural and magnetic properties of polyaniline-cobalt ferrite (PA-CoFe) nanocomposites	Department of Physics, Guru Nanak Dev University, College Verka, Amritsar, Punjab, 143501, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047320201&doi=10.1063%2f1.5032871&partnerID=40&md5=02945533fc4fa7420ccbd4b0b36f1b3e

1764	Structural and optical properties of Bi2O3-B2O3-CdO-Na2O glass system for gamma ray shielding applications	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047319304&doi=10.1063%2f1.5032880&partnerID=40&md5=e8a2f701bf35fd6253fa2574ddf8c95a
1765	Structural and morphological study of chemically synthesized CdSe thin films	Department of Physics, DAV College, Chandigarh, 160010, India; Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, 140407, India; Department of Chemistry, B.S.H.K. College, Abohar, Punjab, 142001, India; Multifunctional Materials Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Nanophysics Laboratory, Department of Physics, Government Dungar College, Bikaner, 334001, India	6	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047313180&doi=10.1063%2f1.5032395&partnerID=40&md5=1032e5f19fe2014b334308aefef7e87a
1766	HEMT based 6T static random access memory cell design for high speed applications	University Institute of Engineering and Technology, Panjab University, Swami Sarvanand Giri Regional Centre, Hoshiarpur, Punjab, 146021, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055281685&doi=10.1166%2fjctn.2018.7380&partnerID=40&md5=1691fd4a7f45a4fbb302379d2a0a10c
1767	Pharmacognostic profile of trigonella corniculata L. Seeds and effect of its aqueous extract on growth inhibition of cancer cells	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Drug Testing and Research Laboratory, Herbal Health Research Consortium Pvt. Ltd, Amritsar, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050943160&doi=10.5958%2f0974-360X.2018.00375.X&partnerID=40&md5=170ae74f91c920198d3798184b17193a
1768	To investigate the relation between pore size and twist angle in enhanced thermoelectric efficient porous armchair graphene nanoribbons	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University, RC Jalandhar, Ladhewali, Punjab, 144007, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047865679&doi=10.1088%2f2053-1591%2faabf69&partnerID=40&md5=193ac96cc03ad4d26205b40c80e247b
1769	Assessment of the efficiency of U-tube continuous bioreactor and immobilized enzyme beads for dye decolourization	Department of Biosciences, Manipal University, Jaipur, Rajasthan 303007, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046671547&doi=10.1007%2fs13205-018-1275-2&partnerID=40&md5=ebfe1e07315802b4623067df2b77a182
1770	Multi objective integrated crossover based particle swarm optimization for load balancing in cloud data centers	Department of Computer Application, IKGPTU, Jalandhar, India; Department of Computer Science and Engineering, GNDU, Amritsar, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046379453&partnerID=40&md5=3cd7219d735a73f062aa74a4432ca848
1771	Machine learning configurations for human protein classification using SDFES	DCS, Guru Nanak Dev University, Amritsar, Punjab 143001, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046374368&partnerID=40&md5=51de05ba26649bdbc3aa3ac001edcba9
1772	Retraction notice to “ Bioaccumulation and physiological responses to lead (Pb) in Chenopodium murale L.”[YEESA(2018)83-90] (Ecotoxicology and Environmental Safety (2018) 151 (83–90)(S0147651317309119)(10.1016/j.ecoenv.2017.12.068))	Department of Applied Sciences, University Institute of Engineering and Technology, Panjab University, Chandigarh, 160014, India; Department of Botany, M.C.M. DAV College for Women, Chandigarh, 160036, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Environment Studies, Panjab University, Chandigarh, 160014, India; Department of Botany, Panjab University, Chandigarh, 160014, India; Central University of Punjab, Mansa Road, Bathinda, 151001, India	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042426309&doi=10.1016%2fj.ecoenv.2018.02.019&partnerID=40&md5=7896f73110aca316bd1e524e1345541a
1773	Zinc phthalocyanine nanowires based flexible sensor for room temperature Cl2 detection	Department of Applied Physics, Giani Zail Singh Campus, College of Engineering and Technology, Bathinda, 151001, India; Post Graduate Department of Physics, Khalsa College, Amritsar, 143001, India; Material Science Research Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, 143001, India; CSJR National Physical Laboratory, Dr. K.S. Krishnan Marg, New Delhi, 110012, India; Technical Physics and Prototype Engineering Division, Bhabha Atomic Research Center, Trombay, Mumbai, India	7	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045770972&doi=10.1063%2f1.5028715&partnerID=40&md5=45b0fbb95da19eb477eb672dd9baa5f7
1774	Tungsten disulfide nanoparticles anchored on reduced graphene oxide for dye sensitized solar cell applications	Material Science Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Thin Film Devices Section, Technical Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India	4	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045761292&doi=10.1063%2f1.5028732&partnerID=40&md5=11df8094fe1466415e858d4399eb7891
1775	Investigation of structural and multiferroic properties of highly tetragonally distorted BMZF-PT solid solutions	Multifunctional Material Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045748573&doi=10.1063%2f1.5028585&partnerID=40&md5=5f143c86d1240ac00859974b41a18803

1776	Hydrogen adsorption properties based on holey graphene sheets	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045738830&doi=10.1063%2f1.5028643&partnerID=40&md5=51a2dc0e3fec3ebcb5a704702a642a
1777	Evaluation of Omega-3 fatty acids in management of trigeminal neuralgia	Department of Oral Medicine and Radiology, Oral Pathology, SGRD Institute of Dental Sciences and Research, Amritsar, Punjab, India; Department of Oral Surgery, Bibi Kaulan Ji Charitable Hospital, Amritsar, Punjab, India; Department of Oral Medicine and Radiology, MM College of Dental Sciences and Research, Mullana, Ambala, Haryana, India; Department of Pharmaceutics, Khalsa College of Pharmacy, Amritsar, Punjab, India	5	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85109197426&doi=10.4103%2fjiaomr.jiaomr.41.18&partnerID=40&md5=b9e4ffd8c78447ca8ca1b77510c5c6b5
1778	Urban Development and Urbanisation in the Two Frontier Regions of India	Department of Sociology, Guru Nanak Dev University, Amritsar, Punjab, India	1	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081210070&doi=10.1177%2f0038022917751995&partnerID=40&md5=1d8a5d8d1aecff5b05490646040a8a29
1779	Pharmacognostic investigations and phytochemical screening of <i>Argyrea speciosa</i> Linn	Department of School of Pharmaceutical Sciences, Lovely Professional University, Jalandhar, Punjab, 144 402, India; Health Care Aid, St. Boniface Hospital, 409 Tache Avenue, Winnipeg, Canada; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143 001, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052958968&partnerID=40&md5=1ed622ec65be57e1c4381d82bb2ac01f
1780	Pharmacognostic standardization and high-performance thin-layer chromatography fingerprinting of ficus infectoria leaves	Department of Pharmacognosy and Phytochemistry, Khalsa College of Pharmacy, Amritsar, Punjab, India; Department of Pharmacognosy, School of Pharmaceutical Sciences, Lovely Professional University, Phagwara, Punjab, India; Prime Healthcare, San Diego, CA, United States	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052955956&partnerID=40&md5=258932b36d01f0889ea2bcf978b6fd0a
1781	Managing QoS degradation of component web services in a dynamic environment	Department of Computer Science, Guru Nanak Dev University, Amritsar, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045464734&doi=10.4018%2fJUSWIS.2018040108&partnerID=40&md5=277370af669a375f06e97665c25aa96c
1782	Helical modes generate antimagnetic rotational spectra in nuclei	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	1	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044983368&doi=10.1103%2fPhysRevC.97.034325&partnerID=40&md5=13d3b4cabdbd0356bde908d6cd85acc1
1783	Dynamics of electoral process of 2017 assembly elections in Punjab	Guru Nanak Dev University, Amritsar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051715638&partnerID=40&md5=e762916ad415d479c55c1fa1841e4440
1784	Waste management and utilization in vegetable processing	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; Department of Food Science and Human Nutrition, Michigan State University, East Lansing, MI, United States	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050778724&doi=10.1002%2f9781119098935.ch20&partnerID=40&md5=9bef7700ca6dfbd05dc7f99e059c4700
1785	Corrigendum to “Elucidation of phase evolution, microstructural, Mössbauer and magnetic properties of Co ²⁺ Al ³⁺ doped M-type BaSr hexaferrites synthesized by a ceramic method” [J. Alloys Compd. 695 (2017) 1112–1121](S0925838816333722)(10.1016/j.jallcom.2016.10.237)	Research Scholar, Department of Electronics and Communication Engineering, I.K.G. Punjab Technical University, Kapurthala, India; Department of Electronics and Communication Engineering, Rayat Bahra Institute of Engineering and Nanotechnology, Hoshiarpur, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Physics, Zagazig Universit, Zagazig, Egypt; Department of Physics, King Abdul Aziz, Jeddah, Saudi Arabia; Department of Physics, Najran University, Najran, Saudi Arabia; Reactor Physics Department, NRC, Atomic Energy Authority, Abou Zabaal, Cairo, Egypt; Department of Physics, University School of Sciences, Gujarat University, Ahmedabad, Gujrat, India; Department of Physics, University of Memphis, United States; Department of Physics, Vivekanand College, Aurangabad, Maharashtra, India; Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai, 400 085, India	13	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85033408019&doi=10.1016%2fj.jallcom.2017.11.003&partnerID=40&md5=46044a17a76cd5667ff981deaec7795

1786	Corrigendum to “Structural and magnetic properties of Co2+-W4+ ions doped M-type Ba-Sr hexaferrites synthesized by a ceramic method” [J. Alloys Compd. 695 (2017) 909–914][S0925838816333266](10.1016/j.jallcom.2016.10.192)	Department of Electronics and Communication Engineering, I.K.G. Punjab Technical University, Kapurthla, India; Department of Electronics and Communication Engineering, Yadavindra College of Engineering, Punjabi University, Guru Kashi Campus, Talwandi Sabo, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Physics, University School of Sciences, Gujarat University, Navrangpura, Ahmedabad, Gujarat, India	6	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85033400993&doi=10.1016%2fj.jallcom.2017.11.001&partnerID=40&md5=535a75d66b2e0d3e7ec9a97c71bc6225
1787	A closed testing procedure for comparing successive exponential populations with respect to location parameter	Department of Mathematics, Guru Nanak Dev University, Amritsar, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029700797&doi=10.1080%2f03610926.2017.1307407&partnerID=40&md5=06ae5114ad37744f598d9f0fbaf7efa
1788	Effect of polarization force on large amplitude dust kinetic Alfvén waves	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041018041&doi=10.1063%2f1.5020400&partnerID=40&md5=6ea177a5c756833edd873b20a2d3eae5
1789	Organic flame retardant induced oxidative stress in various organs of freshwater fish channa punctatus	Department of Zoology, Guru Nanak Dev University, Amritsar, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086948435&partnerID=40&md5=38e464a3baca1f1fe12724e4605285da
1790	Brief Communication: The 22nd edition (2018) of the sears ust of subject headings. A brief introduction	Dept. of Library and Information Science, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	1	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060922878&doi=10.5771%2f0943-7444-2018-8-712&partnerID=40&md5=4ee6713e86ecf1eec88299b49527ff47
1791	Conformational analysis of thioglycine molecule: A theoretical study	Department of Chemistry, Guru Nanak Dev University College, Verka, Amritsar, 143 501, India; Department of Bioinformatics, Hans Raj Mahila Maha Vidayala, Jalandhar, 144 008, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056087097&doi=10.14233%2fajchem.2018.21564&partnerID=40&md5=caea552733c253e2698e763f3881fc49
1792	Perception of advisors' regarding behaviour of investors' while selecting wealth management services: An AHP approach	Guru Nanak Dev University College, Ladowali Road, Jalandhar, Punjab, 144001, India; Guru Nanak Dev University, Amritsar, Punjab, 143040, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055770995&doi=10.1504%2fijBG.2018.095766&partnerID=40&md5=352dbed360b8731c4a15729db311342e
1793	Development and validation of ultraviolet spectrophotometric method for estimation of frovatriptan succinate monohydrate in bulk and pharmaceutical dosage form	Department of Pharmaceutical Sciences, I.K. Gujral Punjab Technical University, Kapurthala, Punjab, India; Department of Pharmaceutics, School of Pharmaceutical Sciences, Lovely Professional University, Phagwara, Punjab, India; Department of Pharmaceutics, Controller of Examinations, Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India; Department of Oral and Maxillofacial Pathology, Shri Guru Ram Das Institute of Dental Sciences and Research, Amritsar, Punjab, India; Department of Pharmaceutics, Khalsa College of Pharmacy, Amritsar, Punjab, India	5	2018	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054936332&partnerID=40&md5=ae9505d14c1768034fd2d13803ca34ad9
1794	Multiple peaks in gel permeation chromatographs of poly(l-lactide)	Department of Chemistry, Bebe Nanaki Guru Nanak Dev University College, Mithra, 144 628, India; Department of Chemical Engineering, Thapar University, Patiala, 147 004, India; Polymer Institute of Slovak Academy of Sciences, Dubravska cesta 9, Bratislava, 842 36, Slovakia	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052582340&doi=10.14233%2fajchem.2018.21441&partnerID=40&md5=e834b6d2be52f692b2323f683c419123
1795	Walkability and Legislation: How supportive is the legislative framework as regards pedestrian concerns in the Indian cities?	Department of Architecture, Guru Nanak Dev University, Amritsar, India	1	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051721491&doi=10.5176%2f2301-394X_ACE18.24&partnerID=40&md5=0b12f5517d19f18db9a9936481f568ce
1796	Study of electrolytes and liver function tests in chronic alcoholism	Department of Medical Laboratory Sciences, Khalsa College of Pharmacy and Technology, Amritsar, Punjab 143 001, India; Department of Phamacognosy and Phytochemistry, Khalsa College of Pharmacy, Amritsar, Punjab 143 001, India; Department of Medical Laboratory Technology, Punjab College of Technical Education, Ludhiana, Baddowal, Punjab 142 021, India; Department of Medical laboratory Technology, BIS Institute of Science and Technology, Gagra, Moga, Punjab 142 043, India	5	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050860044&doi=10.22159%2faijpcr.2018.v11s2.28528&partnerID=40&md5=a10428e544e99ef236882c7f103b771d
1797	Treatment of atopic dermatitis: Current status and future prospects	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, 147002, India	3	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049889704&doi=10.2174%2f157488512666171123165636&partnerID=40&md5=02a9e7900527d09875d2c8d69541ed07

1798	Evaluation and analysis of word embedding vectors of english text using deep learning technique	Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India; Faculty of Engineering and Technology, Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India	4	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049041742&doi=10.1007%2f978-981-10-8657-1_55&partnerID=40&md5=0a148b47c181d7132293de0bae5771a
1799	Developer dynamics and syntactic quality of commit messages in OSS projects	Department of Computer Science, Guru Nanak Dev University, Amritsar, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049004230&doi=10.1007%2f978-3-319-92375-8_6&partnerID=40&md5=a6685d447e985141cde42707f4090e4d
1800	Empirical model for quantification of confidentiality in OO system	Dept. of Computer Science, Khalsa College for Women, Amritsar, India; Dept. of Computer Science and Engineering, Guru Nanak Dev University, Amritsar, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048559655&doi=10.14419%2fijet.v7i2.30.13452&partnerID=40&md5=e1936c01d93de4a6101e3b5335d664b5
1801	Ramification of hustling the web application development	Lyallpur Khalsa College, Jalandhar, India; GNDU, Amritsars, India	2	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048542060&doi=10.14419%2fijet.v7i2.30.13454&partnerID=40&md5=891dafce0a54e0c1c711ffd45c4d4835
1802	Oxidation of benzyl alcohol in slurry phase over nanoporous ZrV2O7 catalyst and determination of reaction mechanism using DFT	School of Chemical Sciences, Devi Ahilya Vishwavidyalaya, Indore, 452 001, India; Department of Chemistry, Khalsa College, Amritsar, 143 002, India	5	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048151163&doi=10.14233%2fajchem.2018.21193&partnerID=40&md5=b2b79814f35e911b70c5340dccb09c29
1803	Investors' probable solutions to their problems: a study of Punjab	Post Graduate Department of Commerce and Management, Khalsa College for Women, Amritsar, India	1	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047662508&doi=10.1108%2fIJLMA-11-2016-0138&partnerID=40&md5=3d0672c83815488e6c239ba45f42642e
1804	A noninductive proof of de Moivre's formula	Guru Nanak Dev University, Amritsar, India	1	2018	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045089577&doi=10.1080%2f00029890.2018.1392751&partnerID=40&md5=3aaa1ed95a353ae35be43dcd3f83967a
1805	Convergence of bidirectional PON with single-sink wireless sensor network using queue theory	I K Gujral Punjab Technical University, Kapurthala, Punjab, India; Khalsa College of Engineering & Technology, Amritsar, Punjab, India; Shaheed Bhagat Singh State Technical Campus, Ferozepur, Punjab, India	3	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044414230&doi=10.1007%2f978-981-10-7386-1_22&partnerID=40&md5=92da7610bc8cc3fe2065f4ab7ed44f29
1806	5,6-Benzoflavones as cholesterol esterase inhibitors: Synthesis, biological evaluation and docking studies	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; TERI-Deakin Nanobiotechnology Centre, Energy and Resources Institute, TERI Gram, Gual Pahari, Gurugram, Haryana, 122001, India; Department of Pharmaceutical Sciences, Lovely Professional University, Phagwara, Punjab, 144411, India	7	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044316259&doi=10.1039%2fc7md00565b&partnerID=40&md5=4322f070acba43fb3ea6f229399f4d4
1807	Grayscale image enhancement using improved cuckoo search algorithm	Guru Nanak Dev University, Amritsar, Punjab 143001, India	2	2018	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026767030&doi=10.1007%2f978-981-10-3373-5_13&partnerID=40&md5=a8ec9ce3a0c1ce66d4e07c5a6218a4ef
1808	Guest Lecture on 'Quality Control of Cement Concrete'	J.K. Cement (White Cement Division)	45	2018	27 September, 2018	Collaboration	Not Available
1809	Workshop on on "Decentralized Sanitation"	National Institute of Urban Affairs	66	2018	05 October, 2018	Collaboration	https://drive.google.com/file/d/1VZ8NOWyF5W334TuPSkhK1lOMk5AXhBJ/view?usp=sharing
1810	Two day workshop "Enabling Low-Impact Approach to Built Environment"	Sustainable Building and Heritage Programme of Centre of Science and Environment (CSE)	41	2018	04 September, 2018 to 05 September, 2018	Collaboration	Not Available
1811	Training Programme on "Enabling Low-Impact Approach to Built Environment"	Centre for Science and Environment	54	2018	04 September, 2018 to 06 September, 2018	Collaboration	Not Available
1812	Three days Energy Conservation Building Codes Training Programme	Saakaar Foundation and VK Environmental	64	2018	04 July, 2018 to 06 July, 2018	Collaboration	Not Available
1813	Literary function	Consulate General of Canada in Chandigarh and Dhahan Prize, Canada	80	2018	07 March , 2018	Collaboration	Not Available
1814	National Level, "Zero to one Hackathon" - a 24 hour coding event	Nagarro Pvt. Ltd., Gurugram	55	2018	23 February, 2018 to 24 February, 2018	Collaboration	Not Available
1815	Special lecture on 'Sri Guru Gobind Singh Ji da Jeevan te Udes'h'	Principal Iqbal Singh Memorial Trust	65	2018	28 February, 2018	Collaboration	Not Available

1816	Training Programe on Punjab ECBC (Energy Conservation Building Codes)	Punjab Energy Development Agency (PEDA) & Design2Occupancy Services LLP(D2O)	90	2018	12 February, 2018	Collaboration	Not Available
1817	lecture series on the following topics "Sports Medicine â€” Yesterday & Today", â€œSports Nutrition & Supplements in Sportsâ€œ and "Sudden Cardiac Arrest in Sports â€”Who is responsible?"â€œ	Department of Physical Education (Teaching), GNDU, Amritsar	85	2018	24/01/18 at 10 AM	Collaboration	Not Available
1818	Training programme on "Planning for Sustainable Development"	Centre for Science and Environment, New Delhi	75	2018	16-18 January, 2018	Collaboration	Not Available
1819	One day Seminar on "Importance of Intellectual Property in Innovation Management"	PHD Chamber of Commerce & Industry, New Delhi and Ministry of Micro, Small, Medium Enterprise (MSME), New Delhi	100	2018	31, January 2018.	Collaboration	Not Available
1820	5th All India Conference of Linguistics and Folklore on the topic "Punjabi Bhasha, Lokdhara Ate Sabhiachar : Vishvi Paripekh"	Punjabi Linguistics Association (Regd.) Patiala	45	2018	Febuary 22-23, 2018	Collaboration	Not Available
1821	EdCIL (India) Ltd., A CPSE under MHRD, Implementing Partner for Study in India, A prog	EdCIL (India) Ltd., A CPSE under MHRD, Implementing Partner for Study in India	31	2019	10-01-19	Academic collaboration, Student training and placement programs	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1822	Cancer Care Charitable Society	Cancer Care Charitable Society	42	2019	09-02-19	Academic collaboration, seminars	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1823	The University of South Florida, USA	The University of South Florida, USA	43	2019	26-02-19	Faculty and students exchange programs, research and development participation	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1824	Cornell University, USA	Cornell University, USA	23	2019	11-04-19	Faculty and students exchange programs, research and development participation	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1825	University of Wolverhampton, UK	University of Wolverhampton, UK	32	2019	23-04-19	Faculty and students exchange programs, research and development participation	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1826	The Board of Regents of the University of Oklahoma Health Sciences Centre, USA	The Board of Regents of the University of Oklahoma Health Sciences Centre, US	26	2019	12-06-19	Faculty and students exchange programs, research and development participation	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1827	Nishan-e-Sikhi Charitable Trust, Khadur Sahib, Tarn Taran	Nishan-e-Sikhi Charitable Trust, Khadur Sahib, Tarn Taran	22	2019	25-06-19	Academic collaboration	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1828	Sant Longowal Institute of Engineering and Technology, Longowal	Sant Longowal Institute of Engineering and Technology, Longowal	39	2019	26-09-19	Faculty and students exchange programs, research and development participation	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1829	Punjab Agriculture University, Ludhiana	Punjab Agriculture University, Ludhiana	34	2019	16-10-19	Faculty and students exchange programs, research and development participation	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1830	Maharaja Ranjit Singh Punjab Technical University, Bathinda	Maharaja Ranjit Singh Punjab Technical University, Bathinda	33	2019	2019	Faculty and students exchange programs, research and development participation	https://drive.google.com/file/d/1s6YdJ1H5rtKvvmP5IUVRFok-AAUk157K/view?usp=sharing
1831	Response of phenylpropanoid pathway and the role of polyphenols in plants under abiotic stress	State Key Laboratory of Subtropical Silviculture, Zhejiang A and F University, Hangzhou, 311300, China; School of Land and Food, University of Tasmania, Hobart, TAS 7005, Australia; Department of Crop Science and Biotechnology, Dankook University, Chungnam, 31116, South Korea; Plant Stress Physiology Laboratory, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Agriculture, Food and Environment, University of Pisa, Via del Borghetto, Pisa, 80-56124, Italy	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068774805&doi=10.3390%2fmoles24132452&partnerID=40&md5=3a0aa29a8ff2956122756015fafaf65e

1832	Phytohormones regulate accumulation of osmolytes under abiotic stress	State Key Laboratory of Subtropical Silviculture, Zhejiang A&F University, Hangzhou, 311300, China; School of Land and Food, University of Tasmania, Hobart, TAS 7005, Australia; Department of Botany, DAV University, Sarmastpur, Jalandhar, Punjab 144012, India; Plant Stress Physiology Laboratory, Department of Botanical & Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Environment Education, Government College of Commerce and Business Administration, Chandigarh, 160047, India; Mehr Chand Mahajan D.A.V. College for Women, Chandigarh, 160036, India; School of Bioengineering & Biosciences, Lovely Professional University, Phagwara, 144411, India	10	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070070076&doi=10.3390%2fbiom9070285&partnerID=40&md5=ad0b76f3075badad922e3eaff57a6aa2
1833	Global evaluation of heavy metal content in surface water bodies: A meta-analysis using heavy metal pollution indices and multivariate statistical analyses	Department of Botany, DAV University, Jalandhar, Punjab 144012, India; Department of Zoology, DAV University, Jalandhar, Punjab 144012, India; State Key Laboratory of Subtropical Silviculture, Zhejiang A & F University, Hangzhou, 311300, China; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Environment Studies, Government College of Commerce and Business Administration, Sector-50, Chandigarh, 160047, India; Department of Botany, M.C.M. DAV College for Women, Chandigarh, 160036, India; Hellenic Centre for Marine Research, Institute of Marine Biological Resources and Inland Waters, 46.7 km Athens-Sounioave, Anavissos, 19013, Greece; School of Engineering and Technology, Central Queensland University, Rockhampton, QLD4702, Australia; Instituto de Geomorfologia y Suelos, Department of Geography, University of Malaga, Malaga, 29071, Spain; Department of Physical Geography, University of Trier, Trier, 54296, Germany	11	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069558788&doi=10.1016%2fj.chemosphere.2019.124364&partnerID=40&md5=0b3ee7198f8fb8f6b7ae403ae397e8e7
1834	Worldwide pesticide usage and its impacts on ecosystem	State Key Laboratory of Subtropical Silviculture, Zhejiang A&F University, Hangzhou, 311300, China; Plant Stress Physiology Lab, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botany, DAV University, Sarmastpur, Jalandhar, Punjab 144012, India; School of Land and Food, University of Tasmania, Hobart, TAS, Australia; Department of Applied Sciences, UIET, Chandigarh, 160014, India; Department of Botany, School of Bioengineering and Biosciences, Lovely Professional University, Phagwara, Punjab 144411, India; Department of Botany, M.C.M. DAV College for Women, Chandigarh, 160036, India; Department of Zoology, DAV University, Sarmastpur, Jalandhar, Punjab 144012, India; Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India; Division of Plant Biotechnology, Entomology Research Institute, Loyola College, Chennai, India; Department of Environmental Sciences, DAV University, Sarmastpur, Jalandhar, Punjab 144012, India	18	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85100745224&doi=10.1007%2fs42452-019-1485-1&partnerID=40&md5=371ad59ea53f6852eb23037e8437e1ac
1835	Pollution assessment of heavy metals in soils of India and ecological risk assessment: A state-of-the-art	Department of Botany, DAV University, Sarmastpur, Jalandhar, Punjab 144012, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; State Key Laboratory of Subtropical Silviculture, Zhejiang A & F University, Hangzhou, 311300, China; Department of Applied Sciences, UIET, Panjab University, Chandigarh, 160014, India; Department of Botany, M.C.M. DAV College for Women, Chandigarh, 160036, India; Soil Erosion and Degradation Research Group, Department of Geography, University of Valencia, Valencia, 46010, Spain	8	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055989236&doi=10.1016%2fi.chemosphere.2018.10.066&partnerID=40&md5=3b923b3d1af65588bee5b929ab999bd8

1836	Investigation of bismuth borate glass system modified with barium for structural and gamma-ray shielding properties	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, Guru Nanak Dev University College Verka, Amritsar, Punjab 143501, India	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052235587&doi=10.1016%2fi.saa.2018.08.038&partnerID=40&md5=eb0acac104c0a607a687bdbcc043e533
1837	Assessment of subcellular ROS and NO metabolism in higher plants: Multifunctional signaling molecules	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Plant Production, College of Food & Agricultural Sciences, King Saud University, Riyadh, 11451, Saudi Arabia; Botany and Microbiology Department, College of Science, King Saud University, Riyadh, 11451, Saudi Arabia; Department of Botany, S.P. College, Srinagar, Jammu and Kashmir 190001, India; Department of Biochemistry, Cell and Molecular Biology, Estación Experimental del Zaidin, Consejo Superior de Investigaciones Científicas (CSIC), C/Profesor Albareda, 1, Granada, 18008, Spain	6	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078002230&doi=10.3390%2fantiox8120641&partnerID=40&md5=ba6fba9f5ef4a15fb9f1a69c54c95eef
1838	Global distribution of earthworm diversity	Leipzig, 04103, Germany; Institute of Biology, Leipzig University, Leipzig, 04103, Germany; Institute of Biology, Martin Luther University Halle-Wittenberg, Halle (Saale), 06108, Germany; Universidade Positivo, Curitiba, PR 81280-330, Brazil; Departamento de Ecologia y Biología Animal, Universidad de Vigo, Vigo, 36310, Spain; Embrapa Forestry, Colombo, PR 83411-000, Brazil; Crowther Lab, Department of Environmental Systems Science, Institute of Integrative Biology, ETH Zurich, Zurich, 8092, Switzerland; A. N. Severtsov Institute of Ecology and Evolution, Russian Academy of Sciences, Moscow, 119071, Russian Federation; M. V. Lomonosov Moscow State University, Moscow, 119991, Russian Federation; European Commission, Joint Research Centre, Ispra, Italy; Biometry and Environmental System Analysis, University of Freiburg, Freiburg, 79106, Germany; Department of Biology, Colorado State University, Fort Collins, CO 80523, United States; Global Soil Biodiversity Initiative, School of Global Environmental Sustainability, Colorado State University, Fort Collins, CO 80523, United States; Institute of Biodiversity, Friedrich Schiller University Jena, Jena, 07743, Germany; CEFE, UMR 5175, CNRS, Univ Montpellier, Univ Paul. Valéry, EPHE, SupAgro Montpellier, INRA. IRD, Montpellier Cedex 5, 34293, France; Institute of Computer Science, Friedrich Schiller University Jena, Jena, 07743, Germany; Centre for Biodiversity Theory and Modeling, Theoretical and Experimental Ecology Station, CNRS, Moulis, 09200, France; Sorbonne Université, CNRS, UPEC, Paris 7, INRA, IRD, Institut d 'Ecologie et des Sciences de l'Environnement de Paris, Paris, F-75005, France; Department of Biological, Geological and Environmental Sciences, University of Catania, Catania, 95124, Italy; Department of Terrestrial Ecology, Netherlands Institute of Ecology (NIOO-KNAW), Wageningen, 6700 AB, Netherlands; Laboratory of Nematology, Department of Plant Sciences,	19	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074105177&doi=10.1126%2fscience.aax4851&partnerID=40&md5=050966d584c5b0b64fe8363b7eeda53a
1839	Highly sensitive gas sensor based on Er-doped SnO2 nanostructures and its temperature dependent selectivity towards hydrogen and ethanol	Department of Applied Physics, Chandigarh University, Gharuan, Mohali, Punjab, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056841882&doi=10.1016%2fi.snb.2018.11.086&partnerID=40&md5=48c04703df2987b9bfab4980ca6a086f
1840	Metal resistant PGPR lowered Cd uptake and expression of metal transporter genes with improved growth and photosynthetic pigments in Lycopersicon esculentum under metal toxicity	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Indian Institute of Integrative Medicine (CSIR-IIIM), Council of Scientific and Industrial Research, Canal Road, Jammu, 180 001, India; Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064282422&doi=10.1038%2fs41598-019-41899-3&partnerID=40&md5=c41da28e34eefd147a8b419d75acc8b0
1841	Biomass derived hierarchical porous carbon materials as oxygen reduction reaction electrocatalysts in fuel cells	Dr. Shanti Swarup Bhatnagar University Institute of Chemical Engineering and Technology (formerly Department of Chemical Engineering & Technology), Panjab University, Chandigarh, 160014, India; Centre for Nanoscience & Nanotechnology, UIEAST, Panjab University, Chandigarh, 160014, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2019	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059133326&doi=10.1016%2fi.pmatsci.2018.12.002&partnerID=40&md5=f36aa7831c13b3df3b9555561186efdc
1842	Recent advances in the application of BODIPY in bioimaging and chemosensing	Department of Chemistry, UGC Centre of Advanced Study, Guru Nanak Dev University, Amritsar, 143 005, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072700442&doi=10.1039%2fc9tc03719e&partnerID=40&md5=9b42217f64d6142f1f2332fbe1cd20ba

1843	Ferrocene-appended pharmacophores: An exciting approach for modulating the biological potential of organic scaffolds	Department of Chemistry, Guru Nanak Dev University, Amritsar Punjab, 143005, India; Department of Chemistry, Baring Union Christian College, Batala, 143505, India; Department of Chemistry, Hindu College, Amritsar Punjab, 143001, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061723417&doi=10.1039%2fc8dt03440k&partnerID=40&md5=d046716b574b8bdaec63095fb1c0d174
1844	Selenium modulates dynamics of antioxidative defence expression, photosynthetic attributes and secondary metabolites to mitigate chromium toxicity in Brassica juncea L. plants	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Botany, School of Bioengineering and Biosciences, Lovely Professional University, Phagwara, Punjab 144411, India; State Key Laboratory of Subtropical Silviculture, Zhejiang A&F University, Hangzhou, 311300, China; Plant Production Department, College of Food and Agricultural Sciences, King Saud University, P.O. Box. 2460, Riyadh, 11451, Saudi Arabia; Department of Botany and Microbiology, King Saud University, Riyadh, KSA, Saudi Arabia; Department of Botany, S.P. College SrinagarJammu and Kashmir, India	8	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057043521&doi=10.1016%2fj.envexpbot.2018.11.009&partnerID=40&md5=9a0267e1ef6280d742dd9e64b0226445
1845	Study of environment friendly bismuth incorporated lithium borate glass system for structural, gamma-ray and fast neutron shielding properties	Department of Physics, Guru Nanak Dev University, 143005, Amritsar, India; Physics Department, Faculty of Sciences, Ataturk University, Erzurum, 25240, Turkey; Department of Physics, Guru Nanak Dev University College Verka, Amritsar, Punjab 143501, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068006519&doi=10.1016%2fj.saa.2019.117309&partnerID=40&md5=72a759e83b48de3d04d06acf39cb2f80
1846	24-Epibrassinolide application in plants: An implication for improving drought stress tolerance in plants	School of Land and Food, University of Tasmania, Australia; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Agronomy, Gomal University, Pakistan	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059118872&doi=10.1016%2fj.plaphy.2018.12.013&partnerID=40&md5=adc7bad817acde85c8a62123470bc1fd
1847	Real-time monitoring of air pollutants in seven cities of North India during crop residue burning and their relationship with meteorology and transboundary movement of air	Department of Community Medicine and School of Public Health, Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh, 160012, India; Department of Environment Studies, Panjab University, Chandigarh, 160014, India; Department of Environmental Science & Engineering, Guru Jambheshwar University of Science, Hisar, India; National Atmospheric Research Laboratory, Gadanki, 517502, India; Radio and Atmospheric Sciences Division, National Physical Laboratory, New Delhi, 110012, India; Department of Botanical & Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Biotechnology, Chaudhary Devi Lal University, Sirsa, India; Department of Environment Science, Maharshi Dayanand University, Rohtak, India; Indian Institute of Tropical Meteorology, Pashan, Pune, India	10	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068572618&doi=10.1016%2fj.scitotenv.2019.06.216&partnerID=40&md5=567ddcef810b0119cfa7b887f12566e
1848	Thermostable xylanases from thermophilic fungi and bacteria: Current perspective	Department of Microbiology, Guru Nanak Dev University, Amritsar, 143 005, India; Center for Structural and Functional Genomics, Concordia University, Sherbrooke Street West, Montreal, Quebec H4B 1R6, Canada; Centre for Innovation and Translational Research, CSIR-Indian Institute of Toxicology Research, Lucknow, 226 001, India	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060138695&doi=10.1016%2fj.biortech.2019.01.044&partnerID=40&md5=351862c63cc86353bddf4d77126e72d1
1849	Rational approaches, design strategies, structure activity relationship and mechanistic insights for therapeutic coumarin hybrids	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; School of Pharmaceutical Sciences, MVN University, Palwal, Haryana 121105, India; Program in Chemical Biology, Sloan Kettering Institute, New York, NY 10065, United States	8	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067978008&doi=10.1016%2fj.bmc.2019.06.033&partnerID=40&md5=c6515bc90c1e105a210592cebe69fb77
1850	Structural, optical and thermal properties of nickel doped bismuth borate glasses	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062808985&doi=10.1016%2fj.inoncrsol.2019.02.012&partnerID=40&md5=1f298e808c44677cb99974e887b1d5fe

1851	Supplementation with plant growth promoting rhizobacteria (PGPR) alleviates cadmium toxicity in Solanum lycopersicum by modulating the expression of secondary metabolites	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Indian Institute of Integrative Medicine (CSIR-IIIM), Council of Scientific and Industrial Research, Canal Road, Jammu, 180 001, India; State Key Laboratory of Subtropical Silviculture, Zhejiang A&F University, Hangzhou, 311300, China; Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India; Chair of Climate Change, Environmental Development and Vegetation Cover, Department of Botany and Microbiology, College of Science, King Saud University, Riyadh, 11451, Saudi Arabia; Department of Botany and Microbiology, College of Science, King Saud University, Riyadh, 11451, Saudi Arabia; Department of Botany, S.P. College SrinagarJammu and Kashmir, India	10	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066087208&doi=10.1016%2fj.chemosphere.2019.05.072&partnerID=40&md5=cc7454d1327b6e8c95d9af7db80e4187
1852	Persistent Dimer Emission in Thermally Activated Delayed Fluorescence Materials	Department of Physics, Durham University, South Road, Durham, DH1 3LE, United Kingdom; Department of Chemistry, Durham University, South Road, Durham, DH1 3LE, United Kingdom; Merck KGaA, Performance Materials - Display Solutions, Frankfurter Straße 250, Darmstadt, 64293, Germany; Institute of Physics, Experimental Physics IV, University of Augsburg, Universitätsstr. 1, Augsburg, 86135, Germany; Department of Chemistry, Guru Nanak Dev University, Grand Trunk Road, Off NH 1, Amritsar, Punjab, 143005, India	14	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065312903&doi=10.1021%2facs.jpcc.9b01458&partnerID=40&md5=fef1c3b08006f030e9ec734b21517ae9
1853	Appraisal of heavy metal contents in groundwater and associated health hazards posed to human population of Ropar wetland, Punjab, India and its environs	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064429789&doi=10.1016%2fj.chemosphere.2019.04.009&partnerID=40&md5=79d251e7bc0543d8824a3e45cafb6ac6
1854	Pulse proteins: secondary structure, functionality and applications	Department of Applied Agriculture, Central University of Punjab, Bathinda, 151001, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Center for Polymer from Renewable Resources, South China University of Technology, Guangzhou, China	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063152132&doi=10.1007%2fs13197-019-03723-8&partnerID=40&md5=2f61104f3281b0260a73a90676382f6b
1855	Plant growth promoting rhizobacteria induced Cd tolerance in Lycopersicon esculentum through altered antioxidative defense expression	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Indian Institute of Integrative Medicine (CSIR-IIIM), Council of Scientific and Industrial Research, Canal Road, Jammu, 180 001, India; Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India; Plant Production Department, College of Food and Agricultural Sciences, King Saud University, P.O. Box. 2460, Riyadh, 11451, Saudi Arabia; Botany and Microbiology Department, College of Science, King Saud University, P.O. Box. 2460, Riyadh, 11451, Saudi Arabia; Mycology and Plant Disease Survey Department, Plant Pathology Research Institute, Agricultural Research Center, Giza, Egypt; Department of Botany, S.P. College SrinagarJammu and Kashmir, India	9	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057151867&doi=10.1016%2fj.chemosphere.2018.11.005&partnerID=40&md5=fd138fe1db93b58811cbd3ceda1ab42b
1856	Design, synthesis, antimicrobial evaluation, and molecular modeling studies of novel indolinedione-coumarin molecular hybrids	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; TERI-Deakin Nanobiotechnology Centre, Energy and Resources Institute, TERI Gram, Gual Pahari, Gurugram, Haryana 122001, India; EMC Group of Hospital, Green Avenue, Amritsar, Punjab 143001, India	13	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066959914&doi=10.1021%2facsomega.8b02481&partnerID=40&md5=785f8de0be93cb037be66fb40ba1fdb
1857	A Lightweight User Authentication Scheme for Cloud-IoT Based Healthcare Services	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067552578&doi=10.1007%2fs40998-018-0146-5&partnerID=40&md5=3b51a8ed3e7f0c206c1199cf91f8e38c

1858	Biohythane production in two-stage anaerobic digestion system	Biochemical Conversion Division, Sardar Swaran Singh National Institute of Bio-Energy, Kapurthala, 144601, India; Institute of Physics of São Carlos, University of São Paulo, São Carlos, São Paulo, 13560-970, Brazil; Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055662421&doi=10.1016%2fj.ijhydene.2018.10.022&partnerID=40&md5=a681b8ae1a2cbf28f87fd27662808ba0
1859	Impact of infrared and dry air roasting on the oxidative stability, fatty acid composition, Maillard reaction products and other chemical properties of black cumin (<i>Nigella sativa</i> L.) seed oil	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; P.G. Department of Biotechnology, Khalsa College, Amritsar, Punjab 143002, India; Eastern Regional Research Center, Agricultural Research Service, United States Department of Agriculture, 600 East Mermaid Lane, WyndmoorPA 19038, United States	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066237658&doi=10.1016%2fj.foodchem.2019.05.140&partnerID=40&md5=b1b97ce91e10bb196caf4d28d8d264ae
1860	Jasmonic acid application triggers detoxification of lead (Pb) toxicity in tomato through the modifications of secondary metabolites and gene expression	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Indian Institute of Integrative Medicine (CSIR-IIIM), Council of Scientific and Industrial Research, Canal Road, Jammu, 180 001, India; Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Chair of Climate Change, Environmental Development and Vegetation Cover, Department of Botany and Microbiology, College of Science, King Saud University, Riyadh, 11451, Saudi Arabia; Botany and Microbiology Department, College of Science, King Saud University, Saudi Arabia; Department of Botany, S. P. College, Srinagar, Jammu and Kashmir, India	13	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068260653&doi=10.1016%2fj.chemosphere.2019.06.188&partnerID=40&md5=3a8fb5f0807c346035ffbb1a0bae71bd
1861	Effect of infrared roasting on antioxidant activity, phenolic composition and Maillard reaction products of Tartary buckwheat varieties	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; P.G. Department of Biotechnology, Khalsa College, Amritsar, Punjab 143002, India; Eastern Regional Research Center, Agricultural Research Service, United States Department of Agriculture, 600 East Mermaid Lane, Wyndmoor, PA 19038, United States	7	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061206291&doi=10.1016%2fj.foodchem.2019.01.141&partnerID=40&md5=033219fca40a91d63c593e38f7469677
1862	Uranium distribution in groundwater and assessment of age dependent radiation dose in Amritsar, Gurdaspur and Pathankot districts of Punjab, India	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Punjab Remote Sensing Centre, Ludhiana, Punjab 141004, India; Bhabha Atomic Research Centre, Trombay, Mumbai, 400085, India	7	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058213577&doi=10.1016%2fj.chemosphere.2018.12.039&partnerID=40&md5=f17967b535715306da036f058605a9a4
1863	Recent developments in biological aspects of chalcones: the odyssey continues	Department of Chemistry, Guru Nanak Dev University, Amritsar, India; Department of Chemistry, Khalsa College, Amritsar, India; Department of Applied Chemistry, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061725615&doi=10.1080%2f17460441.2019.1573812&partnerID=40&md5=0331a8f1f2fc5e70f4cfbe0987e3b13d
1864	Canagliflozin loaded SMEDDS: formulation optimization for improved solubility, permeability and pharmacokinetic performance	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, Punjab 147002, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059342523&doi=10.1007%2fs40005-018-0385-5&partnerID=40&md5=f84a1800b2c998f3ee4718d7f8df46eb
1865	Long-Reach High-Capacity Hybrid MDM-OFDM-FSO Transmission Link Under the Effect of Atmospheric Turbulence	Electronics and Communication Engineering Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073650400&doi=10.1007%2fs11277-019-06345-7&partnerID=40&md5=be0d8477178adbde3940d654fc5b1b57
1866	In vitro evaluation of the α -glucosidase inhibitory potential of methanolic extracts of traditionally used antidiabetic plants	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Biochemistry, Sri Guru Ram das University of Health Sciences, Amritsar, Punjab, 143501, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063543381&doi=10.1186%2fs12906-019-2482-z&partnerID=40&md5=707977ec4f059cd932c57f108a1bedb

1867	Role of P-type ATPase metal transporters and plant immunity induced by jasmonic acid against Lead (Pb) toxicity in tomato	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Indian Institute of Integrative Medicine (CSIR-IIIM), Council of Scientific and Industrial Research, Canal Road, Jammu, 180 001, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Chair of Climate Change, Environmental Development and Vegetation Cover, Department of Botany and Microbiology, College of Science, King Saud University, Riyadh, 11451, Saudi Arabia; Botany and Microbiology Department, College of Science, King Saud University, Riyadh, Saudi Arabia; Department of Botany, S.P. College, Srinagar, Jammu and Kashmir, India	10	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062235493&doi=10.1016%2fj.ecoenv.2019.02.084&partnerID=40&md5=b45d3f4e5311f07a75387ffbbb91ac9e
1868	Effect of high-intensity ultrasound treatment on nutritional, rheological and structural properties of starches obtained from different cereals	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059217304&doi=10.1016%2fj.jbiomac.2018.12.149&partnerID=40&md5=aa059188ce7f203e9cd20ab0be7873b3
1869	Pathological perturbations in diabetic retinopathy: Hyperglycemia, AGEs, oxidative stress and inflammatory pathways	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, India; Cytogenetics Laboratory, Greenwood Genetic Center, Greenwood, SC, United States; The International School BangaloreKarnataka, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056623631&doi=10.2174%2f1389203719666180928123449&partnerID=40&md5=1a1d6c2025abfbdaf39cebe982b52065
1870	Effect of tungsten doping on structural and optical properties of rutile TiO 2 and band gap narrowing	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060765556&doi=10.1016%2fj.iileo.2019.01.070&partnerID=40&md5=6ee8ac202175f7efabdad762d395352a
1871	Antimicrobial potential of pomegranate peel: a review	P.G. Department of Biotechnology, Khalsa College, Amritsar, Punjab 143002, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054169752&doi=10.1111%2fjifs.13964&partnerID=40&md5=3cf68fd844de933219f3697fceb4d38
1872	Resveratrol loaded functionalized nanostructured lipid carriers for breast cancer targeting: Systematic development, characterization and pharmacokinetic evaluation	Department of Pharmaceutics, Jan Nayak Ch. Devi Lal Memorial College of Pharmacy, Sirsa, Haryana 125055, India; I. K. Gujral Punjab Technical University, Jalandhar, Punjab, India; Department of Pharmaceutics, Khalsa College of Pharmacy, Amritsar, Punjab, India; Amity Institute of Pharmacy, Amity University, Sector-125, Noida, 201313, India; University Institute of Pharmaceutical Sciences, UGC-Centre of Advanced Studies, Panjab University, Chandigarh, 160 014, India; UGC-Centre of Excellence in Applications of Nanomaterials, Nanoparticles and Nanocomposites, Panjab University, Chandigarh, 160 014, India; Amity Institute of Molecular Medicine & Stem Cell Research (AIMMSCR), Amity University, Sector-125, Noida, 201313, India	7	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067572978&doi=10.1016%2fj.colsurfB.2019.06.004&partnerID=40&md5=8be4a6fb27481bb1b3c211d7e7e43a32
1873	Properties of octenyl succinic anhydride (OSA) modified starches and their application in low fat mayonnaise	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062822532&doi=10.1016%2fj.jbiomac.2019.03.054&partnerID=40&md5=30269d6dd2a17f71b92bbc5e51cc8179
1874	Electromagnetic interference (EMI)shielding, microwave absorption, and optical sensing properties of BaM/CCTO composites in K u -band	Department of Physics, School of Physical Sciences and Chemical Engineering, Lovely Professional University, Phagwara, Punjab 144411, India; Department of Physics, Faculty of Science, Federal University Dutse, P.M.B. 7156, Dutse, Jigawa State, Nigeria; SRM Research Institute, SRM University, Kattankulathur, Chennai 603203, India; Analytic Division and Centralised Instrument Facility, CSIR-Central Salt and Marine Chemicals Research Institute, Gijubhai Badheka Marg, Bhavnagar, India; Department of Chemistry, Guru Nanak Dev University, Amritsar143005, India; Department of Electronics and Communication, Guru Nanak Dev University, Amritsar, 143005, India	8	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065129994&doi=10.1016%2fj.rinp.2019.102307&partnerID=40&md5=43cf9ca5f914cef78037d4fd379751aa
1875	IoT-fog-based healthcare framework to identify and control hypertension attack	Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus Gurdaspur, Gurdaspur, 143521, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053633893&doi=10.1109%2fJIoT.2018.2871630&partnerID=40&md5=187a5be4ba840d9cbabe7e5128288f81

1876	Intellectual detection and validation of automated mammogram breast cancer images by multi-class SVM using deep learning classification	Department of Computer Engineering & Technology, Guru Nanak Dev University, Amritsar, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073280526&doi=10.1016%2fj.imu.2019.01.001&partnerID=40&md5=ff121445eea0f233d568f22af3966f1b
1877	Estradiol attenuates ischemia reperfusion-induced acute kidney injury through PPAR-γ stimulated eNOS activation in rats	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India; Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, India; Department of Veterinary Anatomy, Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052920598&doi=10.1007%2fs11010-018-3427-4&partnerID=40&md5=0a69da56516f6d1fff19a9aad6eb422
1878	Influence of grain size and porosity on X-band properties of Mn-Zr substituted Ni-Co ferrites	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061993835&doi=10.1016%2fj.matlet.2019.02.051&partnerID=40&md5=678e20560299448dd80817e66da6c4a4
1879	Performance comparison of high-speed long-reach mode division multiplexing-based radio over free space optics transmission system using different modulation formats under the effect of atmospheric turbulence	Guru Nanak Dev University, Regional Campus, Department of Electronics and Communication Engineering, Jalandhar, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065474001&doi=10.1117%2fj.OE.58.4.046112&partnerID=40&md5=988bab861279f0fad609210a63944904
1880	Role of plant growth promoting Bacteria (PGPRs) as biocontrol agents of Meloidogyne incognita through improved plant defense of Lycopersicon esculentum	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Council of Scientific and Industrial Research, Indian Institute of Integrative Medicine (CSIR-IIIM), Canal Road, Jammu, 180 001, India; Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India; Botany and Microbiology Department, College of Science, King Saud University, P.O. Box. 2460, Riyadh, 11451, Saudi Arabia; Department of Botany, S.P. College, Srinagar, Jammu and Kashmir, India	9	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059857482&doi=10.1007%2fs11104-019-03932-2&partnerID=40&md5=a4677b677a3abeede35668fff7f53161
1881	Tuning the dielectric and optical properties of Pr–Co–substituted calcium copper titanate for electronics applications	Department of Physics, School of Physical Sciences and Chemical Engineering, Lovely Professional University, Phagwara, 144411, India; Department of Physics, Faculty of Science, Federal University Dutse, P.M.B., Dutse, Jigawa State 7156, Nigeria; SRM Research Institute, SRM University, Kattankulathur, Chennai, 603203, India; Department of Physics, University of South Africa, Johannesburg, 1710, South Africa; Department of Physics, King Fahd University of Petroleum and Minerals, Dhahran, 31261, Saudi Arabia; Department of Physics, Universiti Tun Hussein Onn Malaysia, Parit Raja, Batu Pahat, Johor 86400, Malaysia; Department of Physics, Faculty of Science, Northwest University, P.M.B., Kano, Kano State 3220, Nigeria; Department of Chemistry, Guru Nanak Dev University, Amritsa, 143005, India	8	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056191378&doi=10.1016%2fj.ipcs.2018.09.034&partnerID=40&md5=12bf4e7cf786aefe2839d22a40936e25
1882	Castasterone attenuates insecticide induced phytotoxicity in mustard	State Key Laboratory of Subtropical Silviculture, Zhejiang A&F University, Hangzhou, 311300, China; Department of Botany, DAV University, Sarmastpur, Jalandhar, Punjab 144012, India; Plant Stress Physiology Lab, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry, Lovely Professional University, Jalandhar, Punjab 144411, India	9	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064569679&doi=10.1016%2fj.ecoenv.2019.03.120&partnerID=40&md5=fc6e97ceeceb9e280d5477e292a5247a
1883	Temperature-Dependent Solubilization of the Hydrophobic Antiepileptic Drug Lamotrigine in Different Pluronic Micelles - A Spectroscopic, Heat Transfer Method, Small-Angle Neutron Scattering, Dynamic Light Scattering, and in Vitro Release Study	Department of Chemistry, UGC-Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India; Faculty of Science and Engineering, Division of Chemistry and Environmental Sciences, Manchester Metropolitan University, John Dalton Building, Chester Street, Manchester, M15 6BH, United Kingdom; Département de Physique, ULB, CP 238, av. F. D. Roosevelt, Bruxelles, B-1050, Belgium; Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; School of Engineering, Newcastle University, Merz Court, Newcastle upon Tyne, NE17RU, United Kingdom	7	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070231669&doi=10.1021%2facomega.9b00939&partnerID=40&md5=d5674b227f7b5ba4e132b48f633a3ca
1884	Influence of heat-moisture treatment (HMT) on physicochemical and functional properties of starches from different Indian oat (Avena sativa L.) cultivars	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055909742&doi=10.1016%2fj.jbiomac.2018.10.197&partnerID=40&md5=2e99149c2733bba9e60474f2e8ebd7ea

1885	Self-Assembled nanofibers of perylene diimide for the detection of hypochlorite in water, bio-fluids and solid-state: Exogenous and endogenous bioimaging of hypochlorite in cells	Department of Chemistry, UGC Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Chemical Sciences, IK Gujral Punjab Technical University, Kapurthala-Punjab, 144601, India	6	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076876782&doi=10.1039%2fc9tb01902b&partnerID=40&md5=795a7dd8b9b3c406012394e7480dbe20
1886	Mass Transpiration in Nonlinear MHD Flow Due to Porous Stretching Sheet	Department of Mathematics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Mathematics, Davangere University Shivangotri, Davangere, 577 007, India; Institute of Machine and Product Design, University of Miskolc, Miskolc-Egyetemvaros, 3515, Hungary	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076308691&doi=10.1038%2fs41598-019-52597-5&partnerID=40&md5=c20ece961d2d17cba43aa6134e96a643
1887	Performance comparison of M-QAM and DQPSK modulation schemes in a 2 × 20 Gbit/s–40 GHz hybrid MDM–OFDM-based radio over FSO transmission system	Electronics and Communication Engineering Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074716457&doi=10.1007%2fs11107-019-00861-z&partnerID=40&md5=533d73aabf5a2d149c117d71ac273ec9
1888	Broad-band microwave absorption and magnetic properties of M-type Ba(1–2x)LaxNaxFe10Co0.5TiMn0.5O19 hexagonal ferrite in 18.0–26.5 GHz frequency range	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; D.A.V. Institute of Engineering and Technology, Jalandhar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055134375&doi=10.1016%2fj.immm.2018.10.042&partnerID=40&md5=e348baee09d240b3cdb536a735fa145c
1889	Lightweight SrM/CCTO/rGO nanocomposites for optoelectronics and K u band microwave absorption	Department of Physics, School of Physical Sciences and Chemical Engineering, Lovely Professional University, Phagwara, Punjab 144411, India; Department of Physics, Faculty of Science, Federal University Dutse, P.M.B. 7156, Dutse, Jigawa State, Nigeria; SRM Research Institute, SRM University, Kattankulathur, Chennai, 603203, India; Analytic Division and Centralised Instrument Facility, CSIR-Central Salt and Marine Chemicals Research Institute, Gijubhai Badheka Marg, Bhavnagar, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Electronics and Communication, Guru Nanak Dev University, Amritsar, 143005, India	8	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060050799&doi=10.1007%2fs10854-019-00690-w&partnerID=40&md5=93ab501edc50ac9cd61df916b01d945a
1890	Enzymatic degradation of biofilm by metalloprotease from microbacterium sp. Sks10	Department of Biotechnology, Guru Nanak Dev University, Amritsar, India; Plant Microbe Interactions Laboratory, National Institute of Plant Genome Research, New Delhi, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071779506&doi=10.3389%2fjfbioe.2019.00192&partnerID=40&md5=6139328197bc132a7d9eeb5423dee02b
1891	Tailored therapeutics based on 1,2,3-1: H -triazoles: A mini review	UGC Sponsored Centre for Advanced Studies, Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, University of Petroleum and Energy Studies, Dehradun, 248007, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070743522&doi=10.1039%2fc9md00218a&partnerID=40&md5=3f3f3a4c0f21b4967ab3b698f2798e1b
1892	Isolation and characterization of arabinoxylans from wheat bran and study of their contribution to wheat flour dough rheology	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; P.G. Department of Biotechnology, Khalsa College, Amritsar, Punjab 143002, India; Eastern Regional Research Center, Agricultural Research Service, United States Department of Agriculture, 600 East Mermaid Lane, Wyndmoor, PA 19038, United States	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066851091&doi=10.1016%2fj.carbpol.2019.06.002&partnerID=40&md5=17c237813edeb1610997383d9d1af91b
1893	Exploring Temporal Analytics in Fog-Cloud Architecture for Smart Office HealthCare	Guru Nanak Dev University, Regional Campus, Gurdaspur, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040903622&doi=10.1007%2fs11036-018-0991-5&partnerID=40&md5=b414fdaa47b2ceec9a4ac5ba9e4b9799
1894	Modulation of the functional components of growth, photosynthesis, and anti-oxidant stress markers in cadmium exposed Brassica juncea L.	Department of Botanical & Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; School of Bioengineering and Biosciences, Lovely Professional University, Jalandhar Highway Phagwara, Delhi, Punjab 144411, India; State Key Laboratory of Subtropical Silviculture, Zhejiang A&F University, Hangzhou, 311300, China	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070662384&doi=10.3390%2fplants8080260&partnerID=40&md5=5484bd4468b0e34e76bc8758a98ee6f3
1895	Effect of crude extracts and purified compounds of Alpinia galanga on nutritional physiology of a polyphagous lepidopteran pest, Spodoptera litura (Fabricius)	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Natural Products, National Institute of Pharmaceutical, Education and Research (NIPER), S.A.S. Nagar Punjab 160062, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055736070&doi=10.1016%2fj.ecoenv.2018.10.065&partnerID=40&md5=c27dc78ea052a815c23891094160cf2c

1896	Surface active magnetic iron oxide nanoparticles for extracting metal nanoparticles across an aqueous-organic interface	Department of Chemistry, Natural and Applied Sciences, University of Wisconsin, Green Bay 2420 Nicolet Drive, Green Bay, WI 54311-7001, United States; Department of Chemistry, Khalsa College, G. T. Road, Amritsar Punjab, 143002, India; Department of UCRD, Chandigarh University, Gharuan Mohali, 140413, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071614238&doi=10.1039%2fc03109j&partnerID=40&md5=069628076705ce485c14b512a9dc22d3
1897	Structural, dielectric, and magneto-optical properties of Cu ²⁺ -Er ³⁺ substituted nanocrystalline strontium hexaferrite	Department of Physics, School of Chemical Engineering and Physical Sciences, Lovely Professional University, Phagwara, Punjab, 144411, India; Department of Physics, Faculty of Science, Federal University Dutse, PMB 7156, Jigawa state, Dutse, Nigeria; SRM Research Institute, SRM University, Kattankulathur, Chennai, 603203, India; Department of Polymer and Processing Engineering, Indian Institute of Technology Roorkee, Saharanpur Campus, Saharanpur, U P, 247001, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	8	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062810528&doi=10.1088%2f2053-1591%2fab063b&partnerID=40&md5=76568ba938b45faaac98c9e85113700b
1898	Comprehensive analysis of routing protocols surrounding underwater sensor networks (UWSNs)	Graduate School, Duy Tan University, Da Nang, Viet Nam; GNDU Regional Campus, Jalandhar, Punjab, India; Department of Educational Testing and Quality Assurance, Haiphong University, Haiphong, Viet Nam	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052377926&doi=10.1007%2f978-981-13-1402-5_33&partnerID=40&md5=fd5a32e3cead335f7fd31ad02493ae9a
1899	Transcriptional profiling of contrasting genotypes revealed key candidates and nucleotide variations for drought dissection in <i>Camellia sinensis</i> (L.) O. Kuntze	Biotechnology Department, CSIR-Institute of Himalayan Bioresource Technology (CSIR-IHBT), Palampur, Himachal Pradesh 176061, India; Academy of Scientific and Innovative Research (AcSIR), CSIR-IHBT, Palampur, Himachal Pradesh 176061, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, 143005, India	6	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065837504&doi=10.1038%2fs41598-019-43925-w&partnerID=40&md5=5ec298c06520c1304d5ca3e101ccfb69
1900	In-situ localization and biochemical analysis of bio-molecules reveals Pb-stress amelioration in <i>Brassica juncea</i> L. by co-application of 24-Epibrassinolide and Salicylic Acid	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botany, DAV University, Jalandhar, Punjab 144012, India; Plant Production Department, College of Food and Agricultural Sciences, King Saud University, Riyadh, Saudi Arabia; Botany and Microbiology Department, College of Science, King Saud University, P.O. Box 2460, Riyadh, 11451, Saudi Arabia; Department of Botany, S.P. College, Srinagar, Jammu and Kashmir 190001, India	9	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062590791&doi=10.1038%2fs41598-019-39712-2&partnerID=40&md5=e011c9afcb9caa96485c5f02adcb9b22
1901	Investigation of structural, hysteresis and electromagnetic parameters for microwave absorption application in doped Ba-Sr hexagonal ferrites at X-band	Department of ECE, Sant Longowal Institute of Engineering and Technology Longowal, Sangrur, Punjab, India; Department of ECE, CT Institute of Engineering, Management & Technology, Jalandhar, Punjab, India; Department of ECE, Lovely Professional University, Phagwara, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Physics, Electronics and Space Science, University School of Sciences, Gujarat University, Ahmedabad, Gujarat, India; DIQuiMMA, Facultad de Ingeniería, INTEC, CONICET, Universidad de Buenos Aires, Buenos Aires, Argentina; Department of Physics, (LOCEM), Federal University of Ceará (UFC), Pici Campus, Fortaleza, Ceará, Brazil; Scientific-Practical Materials Research Centre NAS of Belarus, 19 P. Brovki Street, Minsk, 220072, Belarus; National University of Science and Technology MISiS, Leninsky Prospekt, 4, Moscow, 119049, Russian Federation; South Ural State University, Lenin Prospekt, 76, Chelyabinsk, 454080, Russian Federation	10	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072791866&doi=10.1016%2fj.jallcom.2019.07.032&partnerID=40&md5=-bfe6731b49e8a97d3c2418ef9713abe4

1902	A review on bioprocessing of paddy straw to ethanol using simultaneous saccharification and fermentation	Biochemical Conversion Division, Sardar Swaran Singh National Institute of Bio-Energy, Kapurthala, 144601, India; São Carlos Institute of Physics, University of São Paulo, São Carlos, São Paulo 13560-970, Brazil; Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Biotechnology, Engineering School of Lorena, University of São Paulo, Estrada Municipal do Campinho, Lorena, São Paulo 602-810, Brazil	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068045628&doi=10.1016%2fj.procbio.2019.06.019&partnerID=40&md5=ae4e0b1b398c7e91a0607448a60db623
1903	Enhanced hydrolysis of lignocellulosic biomass with doping of a highly thermostable recombinant laccase	Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemical and Biological Engineering, South Dakota School of Mines and Technology, Rapid City, SD 57701, United States; Department of Medical Laboratory Sciences, Lovely Professional University, Phagwara Road, Jalandhar, 144411, India; Green Biologics Inc., Little Falls, MN 56345, United States; BuG ReMeDEE Consortium, Rapid City, SD 57701, United States	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068251173&doi=10.1016%2fj.ijbiomac.2019.06.221&partnerID=40&md5=ea6ce8319ca169af8c92bb5e30be3045
1904	Influence of different milling media on structural, morphological and optical properties of the ZnO nanoparticles synthesized by ball milling process	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063265272&doi=10.1016%2fj.mssp.2019.03.026&partnerID=40&md5=25055adfc9657b52cf7bf2b1508de899
1905	SNA Based Resource Optimization in Optical Network using Fog and Cloud Computing	Department of Computer Science & Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044641122&doi=10.1016%2fj.osn.2017.12.007&partnerID=40&md5=f34616aa261fd26a895b07147296ef21
1906	In-vitro assessment of HA-Nb coating on Mg alloy ZK60 for biomedical applications	Department of Mechanical Engineering, Punjabi University, Patiala, Punjab 147002, India; MRS Punjab Technical University, Bathinda, Punjab 151001, India; Department of Pharmacology, Khalsa College of Pharmacy, Amritsar, Punjab 143001, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064468610&doi=10.1016%2fj.matchemphys.2019.04.037&partnerID=40&md5=116da41b5554566d209132f8a22ece5e
1907	Biocontrol and plant growth promoting potential of phylogenetically new Streptomyces sp. MR14 of rhizospheric origin	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070445049&doi=10.1186%2fs13568-019-0849-7&partnerID=40&md5=5d7d4e0a5544b63c7a58d6650dc4d74a
1908	Ameliorative effect of imperatorin in chemically induced fibromyalgia: Role of NMDA/NFkB mediated downstream signaling	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India; Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065515984&doi=10.1016%2fj.bcp.2019.05.012&partnerID=40&md5=65be5708454389e535b8d86945cee160
1909	Monocarbonyl curcumin based molecular hybrids as potent antibacterial agents	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; EMC Group of Hospital, Green Avenue, Amritsar, Punjab 143001, India	14	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071521691&doi=10.1021%2facsomega.9b01109&partnerID=40&md5=ea1489fc950d92b5db8b5ea585e2b2b8
1910	Rheological behavior of wheat starch and barley resistant starch (type IV) blends and their starch noodles making potential	Department of Food Science and Technology, Chaudhary Devi Lal University, Sirsa, India; Department of Food Science and Technology, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062320476&doi=10.1016%2fj.ijbiomac.2019.03.009&partnerID=40&md5=81c07eb3b0f57885a06f0aaee6566d22
1911	Impact of roasting and extraction methods on chemical properties, oxidative stability and Maillard reaction products of peanut oils	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; P.G. Department of Biotechnology, Khalsa College, Amritsar, Punjab 143002, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066040864&doi=10.1007%2fs13197-019-03719-4&partnerID=40&md5=734dd09d87f39a4ec92e779d5f6c99be
1912	Perylene diimide-Cu2+ based fluorescent nanoparticles for the detection of spermine in clinical and food samples: A step toward the development of a diagnostic kit as a POCT tool for spermine	Department of Chemistry, UGC Centre of Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Chemical Sciences, IK Gujral Punjab Technical University, Kapurthala, 144601, India	6	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075359919&doi=10.1039%2fc9tb02039i&partnerID=40&md5=dae2ec9cffce6b376a3a9c3eb9eb61fc

1913	Impact of plant growth promoting rhizobacteria in the orchestration of Lycopersicon esculentum mill. Resistance to plant parasitic nematodes: A metabolomic approach to evaluate defense responses under field conditions	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; State Key Laboratory of Subtropical Silviculture, Zhejiang A&F University, Hangzhou, 311300, China; Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Plant Production, Faculty of Food & Agricultural Sciences, King Saud University, Riyadh, Saudi Arabia; Botany and Microbiology Department, College of Science, King Saud University, P. O. Box. 2460, Riyadh, 11451, Saudi Arabia; Mycology and Plant Disease Survey Department, Plant Pathology Research Institute, ARC, Giza, 12511, Egypt; Department of Botany, S.P. College, Srinagar, Jammu and Kashmir 190001, India	7	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074545092&doi=10.3390%2fbiom9110676&partnerID=40&md5=1257801d85176a96ec9d6560f2999065
1914	Recent Developments in Heterogeneous Catalyzed Epoxidation of Styrene to Styrene Oxide	School of Chemical Sciences, Devi Ahilya University Takshashila Campus, Khandwa Road, Indore, 452001, India; Post-Graduate Department of Chemistry, Khalsa College, Amritsar, Punjab, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076554556&doi=10.1002%2fslct.201902396&partnerID=40&md5=e20de594cecb0945bb2059ff0870a0af
1915	Characterization of a novel Lytic Polysaccharide Monoxygenase from Malbranchea cinnamomea exhibiting dual catalytic behavior	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemical and Biological Engineering, South Dakota School of Mines and Technology, Rapid City, SD 57701, United States; Composite and Nanocomposite Advanced Manufacturing Center - Biomaterials [CNAM/Bio], Rapid City, SD 57701, United States; BuG ReMeDEE Consortium, South Dakota School of Mines and Technology, Rapid City, SD 57701, United States; Center for Structural and Functional Genomics, Concordia University, 7141, Sherbrooke Street, West, Montreal, Quebec H4B 1R6, Canada	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064932201&doi=10.1016%2fj.carres.2019.04.006&partnerID=40&md5=600355c905dc6637c3f435cba5141846
1916	Design of nano-sized Pr ₃ +Co ₂ +substituted M-type strontium hexaferrites for optical sensing and electromagnetic interference (EMI) shielding in Ku band	Department of Physics, School of Physical Sciences and Chemical Engineering, Lovely Professional University, Phagwara, Punjab 144411, India; Department of Physics, Faculty of Science, Federal University Dutse, P.M.B. 7156, Dutse, Jigawa, Nigeria; SRM Research Institute, SRM University, Kattankulathur, Chennai 603203, India; Analytic Division and Centralised Instrument Facility, CSIR-Central Salt and Marine Chemicals Research Institute, Gijubhai Badheka Marg, Bhavnagar, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India	8	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063011535&doi=10.1007%2fs00339-019-2545-5&partnerID=40&md5=cde051936e27899295a317e80946af3a
1917	Millet: a cereal grain with potent antioxidants and health benefits	Department of Food Science & Technology, Chaudhary Devi Lal University, Sirsa, India; Department of Biotechnology, Chaudhary Devi Lal University, Sirsa, India; Department of Food Science & Technology, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India; Department of Food Science & Technology, Guru Nanak Dev University, Amritsar, India	5	2019	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057317491&doi=10.1007%2fs11694-018-9992-0&partnerID=40&md5=f0596bfc11a94e6294026a949d6b0d97
1918	Oxidative stress mitigation and initiation of antioxidant and osmoprotectant responses mediated by ascorbic acid in Brassica juncea L. subjected to copper (II) stress	Department of Botanical & Environmental Science, Guru Nanak Dev University, Amritsar, Punjab 143001, India; Department of Botany and Microbiology, College of Science, King Saud University, Riyadh, Saudi Arabia; Department of Botany, S.P. College, Srinagar, Jammu and Kashmir, India	6	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068988618&doi=10.1016%2fj.ecoenv.2019.109436&partnerID=40&md5=8647fcb450c0716f510e019af9098458
1919	Quantum-based predictive fog scheduler for IoT applications	Department of Computer Science and Engineering, Lovely Professional University, Punjab, India; Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus Gurpdasur, India; Amritsar College of Engineering and Technology, Amritsar, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069209608&doi=10.1016%2fj.compind.2019.06.002&partnerID=40&md5=603bc06a96ac58280bd513cf0a1a72ef
1920	Effect of the Alkyl Chain Length of Amphiphilic Ionic Liquids on the Structure and Dynamics of Model Lipid Membranes	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India; Institut für Medizinische Physik und Biophysik, Leipzig University, Leipzig, 04109, Germany	7	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072248600&doi=10.1021%2facs.langmuir.9b02128&partnerID=40&md5=a116e10f65cd2fc976a26d95589fee19

1921	Withania somnifera (L.) Dunal ameliorates neurodegeneration and cognitive impairments associated with systemic inflammation	Department of Biotechnology, Medical Biotechnology Laboratory, Guru Nanak Dev University Amritsar, Amritsar, Punjab, 143005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070943676&doi=10.1186%2fs12906-019-2635-0&partnerID=40&md5=48d16b793762de51820073714de9a7a6
1922	Identification and clinical validation of a novel 4 gene-signature with prognostic utility in colorectal cancer	Department of Pathology, Anatomic Pathology Section, Medical College of Georgia at Augusta University, Augusta, GA 30912, United States; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Orthopedics, Medical College of Georgia at Augusta University, Augusta, GA 30912, United States; Department of Medicine, Hematology Oncology Section, Medical College of Georgia at Augusta University, Augusta, GA 30912, United States	11	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070990383&doi=10.3390%2fijms20153818&partnerID=40&md5=133660424a599dd9948ffc74d0031a58
1923	Structural, Dielectric, and Magneto-Optical Properties of Al-Cr Substituted M-Type Barium Hexaferrite	Department of Physics, Lovely Professional University, Phagwara, Punjab 144411, India; Department of Physics, Faculty of Science, Federal University Dutse, P.M.B. 7156, Dutse, Jigawa State, Nigeria; SRM Research Institute, SRM University, Kattankulathur, Chennai 603203, India; Islamia College of Science and Commerce, Srinagar, 190002, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066975027&doi=10.1002%2fpssa.201800928&partnerID=40&md5=4e4d963e6f7306c8eea6d22e00b6b44b6
1924	Possible Molecular Mediators Involved and Mechanistic Insight into Fibromyalgia and Associated Co-morbidities	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064707805&doi=10.1007%2fs11064-019-02805-5&partnerID=40&md5=8b719f2d3e0322a1c9662f65e4553c8c
1925	Cd induced generation of free radical species in Brassica juncea is regulated by supplementation of earthworms in the drilosphere	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; State Key Laboratory of Subtropical Silviculture, Zhejiang A&F University, Hangzhou, 311300, China; Plant Production Department, College of Food and Agricultural Sciences, King Saud University, P.O. Box 2460, Riyadh, 11451, Saudi Arabia; Department of Botany and Microbiology, College of Science, King Saud University, Riyadh, 11451, Saudi Arabia; Department of Botany, S.P. College, Srinagar, Jammu and Kashmir 190001, India	11	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056809205&doi=10.1016%2fj.scitotenv.2018.11.096&partnerID=40&md5=50d10949cb1dbd2fa57caebbf88228f
1926	Excitation wavelength based reversible multicolour photoluminescence by a single chromophore upon aggregation: Detection of picric acid-application in bioimaging	Department of Chemistry, UGC-Centre of Advanced Study-II, Guru Nanak Dev University, Amritsar, 143005, India; Discipline of Biosciences and Bio-Medical Engineering, Indian Institute of Technology Indore, Simrol, Khandwa Road, Indore, 453552, India; Discipline of Chemistry, Indian Institute of Technology Indore, Simrol, Khandwa Road, Indore, 453552, India; Discipline of Metallurgy Engineering and Materials Science, Indian Institute of Technology Indore, Simrol, Khandwa Road, Indore, 453552, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056149396&doi=10.1016%2fj.snb.2018.10.161&partnerID=40&md5=02e4a68c6cbb551dedf8ba81a07105e
1927	Evaluating novel fungal secretomes for efficient saccharification and fermentation of composite sugars derived from hydrolysate and molasses into ethanol	Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India; School of Environmental Sciences, University of Guelph, Guelph, ON N1G 2W1, Canada	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056214329&doi=10.1016%2fj.biortech.2018.11.004&partnerID=40&md5=e965a2150c887935017d296888aaae01
1928	Statistical optimization of enzymatic hydrolysis of rice bran protein concentrate for enhanced hydrolysate production by papain	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143 005, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053822389&doi=10.1016%2fj.lwt.2018.09.014&partnerID=40&md5=c6691f7b8024475b4c2c6a5f8b208552
1929	Cholesterol bound Plasmodium falciparum co-chaperone 'PFA0660w' complexes with major virulence factor 'PfEMP1' via chaperone 'PfHsp70-x'	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Institute of Nano Science and Technology, Mohali, India	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062110499&doi=10.1038%2fs41598-019-39217-y&partnerID=40&md5=230d61b60ea9d96a6026d79837817e62
1930	Influence of nutritional and antinutritional components on dough rheology and in vitro protein & starch digestibility of minor millets	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068486028&doi=10.1016%2fj.foodchem.2019.125115&partnerID=40&md5=267bb38c4ed061ab6b5670dd0f41e94d

1931	Optimization of machining parameters under MQL turning of Ti-6Al-4V alloy with textured tool using multi-attribute decision-making methods	Department of Mechanical Engineering, Rayat-Bahra University, Mohali, India; Department of Mechanical Engineering, Punjabi University, Patiala, India; Department of Mechanical Engineering, Swami Sarvanand Giri Panjab University Regional Centre, Hoshiarpur, India; Department of Mechanical Engineering, Khalsa College of Engineering and Technology, Amritsar, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073247818&doi=10.1108%2FWJE-06-2019-0170&partnerID=40&md5=905e9cfde42bcf7adba9a962799db8e5
1932	Dynamic, shear and pasting behaviour of native and octenyl succinic anhydride (OSA) modified wheat starch and their utilization in preparation of edible films	Department of Food Science and Technology, Chaudhary Devi Lal University, Sirsa, India; Department of Food Science and Technology, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064325003&doi=10.1016%2fj.iibiomac.2019.04.089&partnerID=40&md5=60bb385d865d2db72b904feaabe8a674
1933	Bergapten Ameliorates Vincristine-Induced Peripheral Neuropathy by Inhibition of Inflammatory Cytokines and NFκB Signaling	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066887135&doi=10.1021%2facschemneuro.9b00206&partnerID=40&md5=1e0e86c0f3549aedf9221072a63cefff
1934	Rheological and pasting behavior of OSA modified mungbean starches and its utilization in cake formulation as fat replacer	Department of Food Science and Technology, Chaudhary Devi Lal University, Sirsa, India; Department of Food Science and Technology, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060515956&doi=10.1016%2fj.iibiomac.2019.01.107&partnerID=40&md5=4bc74d78860bb7969f275f8c7ade72cb
1935	Responses of plants to pesticide toxicity: An overview [Respostas de plantas à toxicidade de pesticidas: Uma visão geral]	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073719394&doi=10.1590%2fS0100-83582019370100065&partnerID=40&md5=e97332c17e3a38886f47979850babe7
1936	Immunopathology of recurrent vulvovaginal infections: New aspects and research directions	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072038515&doi=10.3389%2fimmu.2019.02034&partnerID=40&md5=a947c2ec74b25043b2c9138731fa1cd
1937	Nonlinear excitations in a degenerate relativistic magneto-rotating quantum plasma	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072163180&doi=10.1063%2f1.5098138&partnerID=40&md5=3a5ae8af1c274ff00bc01c53046059c7
1938	Performance investigation of high-speed FSO transmission system under the influence of different atmospheric conditions incorporating 3-D orthogonal modulation scheme	Electronics and Communication Engineering Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070739786&doi=10.1007%2fs11082-019-1998-2&partnerID=40&md5=dc934a688f302ee89eaca2c32bf144c1
1939	Secure and efficient ECC based SIP authentication scheme for VoIP communications in internet of things	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab 144001, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064512269&doi=10.1007%2fs11042-019-7466-y&partnerID=40&md5=33fc71d7c670a82ee7cbb00b1220b113
1940	Towards socially enabled internet of industrial things: Architecture, semantic model and relationship management	Department of Computer Science and Engineering, Guru Nanak Dev University, RC, Jalandhar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064708168&doi=10.1016%2fj.adhoc.2019.101869&partnerID=40&md5=ea81c6184122ac9dbbbd2ba7233d23a6
1941	A review of different cost-based distributed query optimizers	Department of Computer Science and Applications, DAVU, Jalandhar, India; Department of Computer Science, GNDU, Amritsar, Punjab, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064557541&doi=10.1007%2fs13748-018-0154-8&partnerID=40&md5=599e57a8f4410bf29f2e85adaed12a30
1942	Quality of Service (QoS) Aware Workflow Scheduling (WFS) in Cloud Computing: A Systematic Review	Department of Computer Science and Engineering, DAV University, Jalandhar, Punjab, India; Royal Holloway, University of London, Egham, United Kingdom; Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062682257&doi=10.1007%2fs13369-018-3614-3&partnerID=40&md5=7a4997339a8ea0ff36aa302b1128b51c
1943	Development of aqueous-based multi-herbal combination using principal component analysis and its functional significance in HepG2 cells	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Cancer Biology Division, IIT Research Institute, Department of Biological Sciences, Illinois Institute of Technology, Chicago, IL 60616, United States; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059938012&doi=10.1186%2fs12906-019-2432-9&partnerID=40&md5=8ab7a0a78a5a3995d8be5bc1259826cd

1944	Silver derivatives of multi-donor heterocyclic thioamides as antimicrobial/anticancer agents: Unusual bio-activity against methicillin resistant: S. aureus, S. epidermidis, and E. faecalis and human bone cancer MG63 cell line	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Departamento de Quimica Inorganica, Facultad de Farmacia, Universidad de Santiago, Santiago, 15782, Spain; Department of Chemistry, Keene State College, Keene, NH 03435-2001, United States	9	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065989979&doi=10.1039%2fc9ra01804b&partnerID=40&md5=793de84bfb42dcc75cb84c196b36c944
1945	Benzoflavone derivatives as potent antihyperuricemic agents	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; TERI-Deakin Nanobiotechnology Centre, Energy and Resources Institute, TERI Gram Gual Pahari, Gurugram, Haryana, 122001, India	9	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060557304&doi=10.1039%2fc8md00512e&partnerID=40&md5=3e5609d5986211a1055bb1f396d95552
1946	Effects of oblique angle deposition on structural, electrical and wettability properties of Bi thin films grown by thermal evaporation	Sensors and Glass Physics Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Physics, University of Petroleum and Energy Studies, Dehradun, Uttarakhand 248007, India	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052312013&doi=10.1016%2fj.apsusc.2018.08.200&partnerID=40&md5=52bf0298622387fac445e09a662041cc
1947	Fabrication of a Hydrazone-Based Al(III)-Selective "turn-On" Fluorescent Chemosensor and Ensuing Potential Recognition of Picric Acid	Department of Chemistry, UGC Center for Advance Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Medicinal Chemistry, National Institute of Pharmaceutical Education and Research, S.A.S. Nagar, Punjab, 160062, India	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074424038&doi=10.1021%2facsomega.9b02132&partnerID=40&md5=25e6f63a42ff95d9961e94db270b9f67
1948	Fog-assisted IoT-enabled scalable network infrastructure for wildfire surveillance	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069557965&doi=10.1016%2fj.inca.2019.07.005&partnerID=40&md5=4a9bb898de4aaa17b9f73fcd48c8b94
1949	Evaluating the service quality of solar product companies using SERVQUAL model	University Business School, Guru Nanak Dev University, Amritsar, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056767016&doi=10.1108%2fijJESM-07-2017-0007&partnerID=40&md5=14a8dccc236bc6d73480702641c76f1f
1950	Enhanced performance of 40Gbit/s-80GHz OFDM based radio over FSO transmission link incorporating mode division multiplexing under strong atmospheric turbulence	Electronics and Communication Engineering Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074336804&partnerID=40&md5=99777092af9927a3a018b8a540b83e7a
1951	Assessment of radon and potentially toxic metals in agricultural soils of Punjab, India	Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143001, India; Centre for I.T. Solutions, Guru Nanak Dev University, Amritsar, Punjab 143001, India; Department of Physics, DAV College, Amritsar, Punjab 143001, India	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060226170&doi=10.1016%2fj.microc.2019.01.028&partnerID=40&md5=df43d339aaa379b8de4bd96be2c4a6a1
1952	The structural and magnetic properties, non-Debye relaxation and hopping mechanism in Pb x Nd 1– x FeO 3 (where x = 0.1, 0.2 and 0.3) solid solutions	Multifunctional Materials Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, India; UGC-DAE Consortium for Scientific Research, Mumbai, India	7	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062342006&doi=10.1080%2f21870764.2019.1579406&partnerID=40&md5=cea7aff068a7f89e6f1da77ae96ead1c
1953	Purification and characterization of actinomycins from Streptomyces strain M7 active against methicillin resistant Staphylococcus aureus and vancomycin resistant Enterococcus	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061859086&doi=10.1186%2fs12866-019-1405-y&partnerID=40&md5=14059e93524aea7aa8a26781b1240775
1954	Multi-targeting anticancer agents: Rational approaches, synthetic routes and structure activity relationship	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab-143005, India; Sloan Kettering Institute, New York, NY 10065, United States	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068249941&doi=10.2174%2f1871520619666190118120708&partnerID=40&md5=85026285e1a96996344620c019c5f960
1955	Effect of Cr–Bi substitution on the structural, optical, electrical and magnetic properties of strontium hexaferrites	Department of Physics, Lovely Professional University, Phagwara, Punjab 144411, India; Department of Physics, Faculty of Science, Federal University Dutse, P.M.B., Dutse, Jigawa state 7156, Nigeria; Islamia College of Science and Commerce, Srinagar, 19002, India; Department of Mathematics, Lovely Professional University, Phagwara, Punjab 144411, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	6	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072707998&doi=10.1016%2fj.physb.2019.411681&partnerID=40&md5=c7bc0fd38dfd53d82f8058af6f12c1a6
1956	CTAB Surfactant Assisted and High pH Nano-Formulations of CuO Nanoparticles Pose Greater Cytotoxic and Genotoxic Effects	Department of Zoology, Khalsa College, Amritsar, Punjab 143001, India; Department of Physics, Khalsa College, Amritsar, Punjab 143001, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064162432&doi=10.1038%2fs41598-019-42419-z&partnerID=40&md5=8f214ec6d6e58686f508beba21243308

1957	The evolution of rogue wave triplets and super rogue waves in superthermal polarized space dusty plasma	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074541719&doi=10.1063%2f1.5119894&partnerID=40&md5=d29c38439543138758417085d1fb2aa8
1958	Microbial fortification improved photosynthetic efficiency and secondary metabolism in lycopersicon esculentum plants under cd stress	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Botany and Microbiology, King Saud University, Riyadh, Saudi Arabia; Department of Botany, S.P. College SrinagarJammu and Kashmir, India	8	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073074860&doi=10.3390%2fbiom9100581&partnerID=40&md5=18045d209c037807b84762c777063896
1959	Interfacial exchange coupling driven magnetic and microwave properties of BaFe 12 O 19 /Ni 0.5 Zn 0.5 Fe 2 O 4 nanocomposites	School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063753984&doi=10.1016%2fj.immm.2019.03.127&partnerID=40&md5=025310163b534ba53b6c9b30c3c2864
1960	Phenanthridine-Fused Tetracyclic Ring System: Metal-Free Diastereoselective Modular Construction of Highly Constrained Polyheterocycles via Post-Ugi Tandem Modifications	Department of Chemistry, Mohanlal Sukhadia University, Udaipur, 313001, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Biochemistry and Biophysics, Texas AandM University, College Station, TX 77843, United States; Department of Chemistry, Banasthali University, Newai-Jodhpuriya Road, Vanasthali, 304022, India	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071680206&doi=10.1021%2facs.orglett.9b02340&partnerID=40&md5=9a26119947c86b4b5d1b3d40d09d35af
1961	QRS detection of ECG signal using hybrid derivative and MaMeMi filter by effectively eliminating the baseline wander	GNDU, Regional Campus, Gurdaspur, Punjab, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049096975&doi=10.1007%2fs10470-018-1249-7&partnerID=40&md5=fa21867f8dbfa47f70ce9dff4ced0804
1962	Diastereoselective approach to rationally design tetrahydro-β-carboline-isatin conjugates as potential SERMs against breast cancer	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; School of Molecular and Cell Biology, University of the Witwatersrand, Private Bag 3, Wits-2050, Johannesburg, South Africa; School of Chemistry and Physics, University of KwaZulu Natal, P/Bag X54001, Westville, Durban, 4000, South Africa	9	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063596996&doi=10.1039%2fc9ra00744i&partnerID=40&md5=1be25b1bc7b18ddee5a800c634def95b
1963	A comprehensive framework for student stress monitoring in fog-cloud IoT environment: m-health perspective	Computer Science and Engineering, Guru Nanak Dev University, Amritsar, 143521, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051747151&doi=10.1007%2fs11517-018-1877-1&partnerID=40&md5=9d33541ade50a070a7e1523ab7975560
1964	Paper strips coated with polypyrrole-wrapped carbon nanotube composites for chemi-resistive gas sensing	Laboratoire d'Electrochimie, Corrosion et de Valorisation Énergétique (LECVE), Université A. Mira, Bejaia, Algeria; Univ Paris Est Creteil, CNRS, ICMPE, UMR7182, Thiais, F-94320, France; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074696326&doi=10.1016%2fj.synthmet.2019.116223&partnerID=40&md5=1175290d88dfac4a3b9d2a3cec234b72
1965	Ka band absorption properties of substituted nickel spinel ferrites: Comparison of open-circuit approach and short-circuit approach	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071129024&doi=10.1016%2fj.ceramint.2019.08.081&partnerID=40&md5=a23c492d00671850ded4f3d017e7d550
1966	Tetrabromobisphenol A induced oxidative stress and genotoxicity in fish Channa punctatus	Department of Zoology, Guru Nanak Dev University, Amritsar, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85043692320&doi=10.1080%2f01480545.2018.1441864&partnerID=40&md5=a64356fdcc594b5d40c6b7ce79216759
1967	Amelioration of hepatic function, oxidative stress, and histopathologic damages by Cassia fistula L. fraction in thioacetamide-induced liver toxicity	Genetic Toxicology Laboratory, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070864757&doi=10.1007%2fs11356-019-06158-y&partnerID=40&md5=56a323b56c72a51a1fe834046e3a108b
1968	Chemical, thermal, rheological and FTIR studies of vegetable oils and their effect on eggless muffin characteristics	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; P.G. Department of Biotechnology, Khalsa College, Amritsar, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065157645&doi=10.1111%2fjifpp.13978&partnerID=40&md5=2dfc0b89a9b401732eb5f1abdd8465aa
1969	Spatially resolved X-ray fluorescence, Raman and photoluminescence spectroscopy of Eu 3+ /Er 3+ doped tellurite glasses and anti-glasses	Sensors and Glass Physics Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Academy of Scientific and Innovative Research (AcSIR), CSIR-National Physical Laboratory Campus, Dr. K S Krishnan Road, New Delhi, 110012, India	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062837570&doi=10.1016%2fj.noncrsol.2019.01.039&partnerID=40&md5=1e8472e5413b90564e8fb890ae0e0f5d
1970	Encapsulating Au-Fe 3 O 4 Nanodots into AIE-active Supramolecular Assemblies: Ambient Visible-light Harvesting “Dip-Strip” Photocatalyst for C–C/C–N Bond Formation Reactions	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, India	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058695712&doi=10.1002%2fasia.201801556&partnerID=40&md5=97c040ceb3a3c1e95ab4983a1340ed30

1971	Coronene diimide-based self-assembled (fibre-to-disc) fluorescent aggregates for visualization of latent fingerprints	Department of Chemistry, UGC Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Indian Institute of Technology, Kanpur, UP, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab 143 005, India; Department of Chemistry, H.S.G Central University SagarM. P. 470003, India; Department of Chemical Sciences, IK Gujral Punjab Technical University, Kapurthala, Punjab 144 601, India	8	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058654556&doi=10.1016%2fj.snb.2018.12.054&partnerID=40&md5=d133f9dbfc5d8e6d88a9bde36b5a9e6f
1972	Structure of lead tellurite glasses and its relationship with stress-optic properties	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Centre for Energy Research, Konkoly-Thege st. 29-33, Budapest, 1121, Hungary; Solid State Physics Division, Bhabha Atomic Research Centre, Trombay, Mumbai, 400085, India	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056485731&doi=10.1016%2fj.materresbull.2018.10.008&partnerID=40&md5=a310fc111d48a7514254cb37a9dda1d1
1973	Cascade recognition of Hg2+ and cysteine using a naphthalene based ES IPT sensor and its application in a set/reset memorized device	Department of Chemistry, Panjab University, Chandigarh, 160014, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058647959&doi=10.1039%2fc8nj03909g&partnerID=40&md5=3a85c4327d15486d6fd28d5b42632f88
1974	Abiotic Stress Management in Plants: Role of Ethylene	Plant Stress Physiology Laboratory, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Botany, DAV University, Sarmastpur, Jalandhar, Punjab, 144012, India; Department of Applied Sciences, UIET, Chandigarh, 160014, India; School of Bioengineering and Biosciences, Lovely Professional University, Punjab, 144411, India; Department of Botany, M.C.M. DAV College for Women, Chandigarh, 160036, India; School of Land and Food, University of Tasmania, Hobart, TAS, Australia; Department of Environmental Sciences, DAV University, Sarmastpur, Jalandhar, Punjab, 144012, India	13	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091977190&doi=10.1002%2f9781119463665.ch10&partnerID=40&md5=cf6b62f148deb80a525a5d969f667d1d
1975	Role of organic acids in mitigating cadmium toxicity in plants	Department of Applied Sciences, UIET, Panjab University, Chandigarh, India; Department of Botany, M.C.M. DAV College for Women, Chandigarh, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079017791&doi=10.1016%2fB978-0-12-815794-7.00010-2&partnerID=40&md5=aab3eed58f9749beced89d64f5006498
1976	IoT and cloud computing based automatic epileptic seizure detection using HOS features based random forest classification	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; Department of ECE, Guru Nanak Dev University Regional Campus, Jalandhar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076587713&doi=10.1007%2fs12652-019-01613-7&partnerID=40&md5=3a71a9112ddf7ac8511bb1b3eed590eb
1977	Failure prediction, lead time estimation and health degree assessment for hard disk drives using voting based decision trees	Department of Computer Engg and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department. of Computer Science, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075264335&doi=10.32604%2fcmc.2019.07675&partnerID=40&md5=2a94bb256df3e92d1fe90ffb6904be08
1978	Influence of defect structure on colour tunability and magneto optical behaviour of WO3 nanoforms	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Materials Science Division, Inter University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India	6	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068597205&doi=10.1039%2fc9ra01901d&partnerID=40&md5=af9d15ea054d26b00b288d4c1d0c809a
1979	Impact of high pressure processing on the rheological, thermal and morphological characteristics of mango kernel starch	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; Department of Food Science and Technology, Chaudhary Devi Lal University, Sirsa, India; Department of Food Science and Technology, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India; Environment and Life Sciences Research Center, Kuwait Institute for Scientific Research, Safat, Kuwait	4	2019	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070752149&doi=10.1016%2fj.ijbiomac.2019.08.132&partnerID=40&md5=e39c5fd4604992d75b2a62381dd11ec4
1980	Mixed valence effect of Se6+ and Zr4+ on structural, thermal, physical, and optical properties of B2O3–Bi2O3–SeO2–ZrO2 glasses	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071301382&doi=10.1016%2fj.optmat.2019.109338&partnerID=40&md5=d4f3782b3f16d04c096387eab1ae63fd

1981	Osthole ameliorates neurogenic and inflammatory hyperalgesia by modulation of iNOS, COX-2, and inflammatory cytokines in mice	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Pathology, Sri Guru Ram Das Institute of Medical Sciences and Research, Amritsar, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, India	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046551853&doi=10.1007%2fs10787-018-0486-9&partnerID=40&md5=6b14805020e01ac5575bafc2f01289fc
1982	Low temperature processable ultra-thin WO3 Langmuir-Blodgett film as excellent hole blocking layer for enhanced performance in dye sensitized solar cell	Technical Physics Division, Bhabha Atomic Research Center, Mumbai, 400085, India; Chemical Division, Bhabha Atomic Research Center, Mumbai, 400085, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Ramrao Adik Institute of Technology, Navi Mumbai, 400706, India	9	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067602608&doi=10.1016%2flectacta.2019.06.047&partnerID=40&md5=b55f6ccda41021b742f9116508d791fb
1983	Assessment of pollution in roadside soils by using multivariate statistical techniques and contamination indices	Department of Botany, DAV University, Sarmastpur, Jalandhar, Punjab 144012, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Geography, Instituto de Geomorfología y Suelos, University of Málaga, Edificio Ada Byron, Ampliación del Campus de Teatinos, Málaga, 29071, Spain	9	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075123958&doi=10.1007%2fs42452-019-0888-3&partnerID=40&md5=9d1e11d6499ff0e40998589a38d000d4
1984	Factors affecting consumer buying behaviour of solar water pumping system	University Business School, Guru Nanak Dev University, Amritsar, India; University Business School, Punjab University, Chandigarh, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066978647&doi=10.1108%2fSASBE-10-2018-0052&partnerID=40&md5=9340c36a377d059cf3e40178953616c4
1985	Physicochemical, rheological, morphological and in vitro digestibility properties of pearl millet starch modified at varying levels of acetylation	Department of Food Science and Technology, Chaudhary Devi Lal University, Sirsa, India; Department of Food Science and Technology, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063483290&doi=10.1016%2fj.ijbiomac.2019.03.179&partnerID=40&md5=d32e77ad7592e99df26501a235207315
1986	Biomonitoring of genotoxicity of industrial wastes using plant bioassays	River Basin Research Center, Gifu University, 1-1 Yanagido, Gifu, 501-1193, Japan; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Graduate School of Engineering, Gifu University, 1-1 Yanagido, Gifu, 501-1193, Japan	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075617852&doi=10.1016%2fj.biteb.2019.03.005&partnerID=40&md5=47800b85e433da5b8839854aa415a383
1987	Impact of Auditor and Underwriter Reputation on Underpricing of SME IPOs in India	Guru Nanak Dev University, Amritsar, Punjab, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082977863&doi=10.1177%2f0258042X19829285&partnerID=40&md5=f8442fce9217ecfe931b429dcf042fee
1988	Cationic Pd(II) catalyzed regioselective intramolecular hydroarylation for the efficient synthesis of 4-aryl-2-quinolones	Department of Chemistry, Mohanlal Sukhadia University, Udaipur, 313001, India; Department of Chemistry, U.G.C. Centre of Advance Studies in Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Banasthali University, Newai-Jodhpuriya Road, Vanasthali, 304022, India; MFOS Laboratory, Department of Chemistry (Centre of Advanced Study), University of Rajasthan, JLN Marg, Jaipur, 302004, India; Department of Chemistry, National Institute of Technology Jalandhar 144011, India	6	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063282647&doi=10.1016%2fj.tet.2019.03.026&partnerID=40&md5=dcfde45e4d6de24d5c269463a088ae7f
1989	Performance evaluation of newly constructed NZCC for SAC-OCDMA using direct detection technique	Department of Mathematics, College of Arts and Science-Wadi Al-dawaser, Prince Sattam bin Abdulaziz University, Al-Kharj, Riyadh Region, Saudi Arabia; Department of ECE, GNDU RC Jalandhar, Jalandhar, India; Department of Computer Applications, ACET Amritsar, Amritsar, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053493564&doi=10.1007%2fs11107-018-0794-4&partnerID=40&md5=b900706d1d44dae4f82338b8b3dbb5cb
1990	Global transcriptional insights of pollen-pistil interactions commencing self-incompatibility and fertilization in tea [camellia sinensis (L.) O. kuntze]	Biotechnology Department, CSIR-Institute of Himalayan Bioresource Technology, Palampur, Himachal Pradesh 176061, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, 143005, India; Academy of Scientific and Innovative Research, CSIR-Institute of Himalayan Bioresource Technology, Palampur, Himachal Pradesh 176061, India	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060786745&doi=10.3390%2fijms20030539&partnerID=40&md5=e956c6992b4518b02b09ab1b89dc0f20
1991	2 × 10 Gbit/s-10 GHz Radio over Free Space Optics Transmission System Incorporating Mode Division Multiplexing of Hermite Gaussian Modes	Electronics and Communication Engineering Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071118561&doi=10.1515%2fjoc-2019-0047&partnerID=40&md5=e5452636e7283fc0d1cf2f9ed6d25e8b

1992	DNA damage protection: an excellent application of bioactive compounds	Department of Food Science & Technology, Chaudhary Devi Lal University, Sirsa, India; Department of Biotechnology, Chaudhary Devi Lal University, Sirsa, India; Department of Food Science & Technology, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072999462&doi=10.1186%2fs40643-019-0237-9&partnerID=40&md5=d0153eb892032af979dc3747cc72affd
1993	Modification of Moth Bean Starch Using Mixture of Organic Acids under Dry Heating	Department of Chemical Engineering, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, Uttar Pradesh 211004, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143 005, India; Department of Plant and Environmental Sciences, University of Copenhagen, 40 Thorvaldsensvej, Frederiksberg C, DK-1871, Denmark	6	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068657282&doi=10.1002%2fstar.201900061&partnerID=40&md5=c7fdafd1bacfd62a07429d6573a98e83
1994	Synthesis, Characterization and Gas Sensing Properties of Ga-Doped SnO2 Nanostructures	Department of Applied Physics, Chandigarh University, Gharuan, Mohali, Punjab, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064812027&doi=10.1007%2fs11664-019-07231-5&partnerID=40&md5=4115120a3630a304add5a84ab1aab86f
1995	Adaptive Neuro Fuzzy Inference System (ANFIS) based wildfire risk assessment	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063468034&doi=10.1080%2f0952813X.2019.1591523&partnerID=40&md5=b59291a39af178c37c14fcb598fe3577
1996	Physicochemical evaluation of corn extrudates containing varying buckwheat flour levels prepared at various extrusion temperatures	Department of Food Processing and Preservation, Dev Samaj College for Women, Ferozepur City, Punjab 152002, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; P.G. Department of Biotechnology, Khalsa College, Amritsar, Punjab 143002, India; Department of Food Science and Technology, Punjab Agricultural University, Ludhiana, Punjab 141005, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062952181&doi=10.1007%2fs13197-019-03703-y&partnerID=40&md5=fc6e95e1a757db1a029bd417f451b9ee
1997	Thermally Stable Ionic Liquid-Based Microemulsions for High-Temperature Stabilization of Lysozyme at Nanointerfaces	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India; Department of Biotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, 140406, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063161054&doi=10.1021%2facs.langmuir.9b00106&partnerID=40&md5=51b281a8db5eae0812c5e00828b619f9
1998	Impact of transition metal ions on the structure and bioactivity of alkali-free bioactive glasses	Department of Materials and Ceramics Engineering, University of Aveiro, CICECO, Aveiro, 3810-193, Portugal; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemical Engineering and Centro de Química Estrutural, Instituto Superior Técnico, University of Lisbon, Av. Rovisco Pais 1, Lisboa, 1049-001, Portugal; Dutch-Belgian Beamline (DUBBLE), European Synchrotron Radiation Facility (ESRF), 71 avenue des Martyrs, 38043 Grenoble Cedex 9, Grenoble, 40220 CS, France; Department of Materials Science and Engineering, Rutgers, The State University of New Jersey, Piscataway, NJ 08854-8065, United States	9	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060351956&doi=10.1016%2fi.inoncrvsl.2018.12.003&partnerID=40&md5=e1414c83772b13d6138a8626ceab8e60
1999	Nano-based drug delivery system: Recent strategies for the treatment of ocular disease and future perspective	Department of Pharmaceutics, School of Pharmaceutical Education and Research, Jamia Hamdard, New Delhi, 110062, India; Department of Pharmaceutics, Khalsa College of Pharmacy, Amritsar, Punjab 143001, India	7	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084364697&doi=10.2174%2f1872211314666191224115211&partnerID=40&md5=ad6cb556b91d6137b2127c2b1a41e886
2000	Aqueous systems of a surface active ionic liquid having an aromatic anion: Phase behavior, exfoliation of graphene flakes and its hydrogelation	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India; AcSIR, CSIR-Central Salt and Marine Chemicals Research Institute, G. B. Marg, Bhavnagar, 364002, India; Collaborative Innovation Center for Henan Province for Green Manufacturing of Fine Chemicals, Key Laboratory of Green Chemicals Media and Reactions, Henan Normal University, Xinxiang Henan, 453007, China; Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India	9	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076876348&doi=10.1039%2fc9cp04449c&partnerID=40&md5=98c4c3bf414e80901fec9a43e413f4d7

2001	Sustainable preparation of sunlight active α -Fe ₂ O ₃ nanoparticles using iron containing ionic liquids for photocatalytic applications	Department of Chemistry, University Grants Commission (UGC), Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai, 400 085, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076821244&doi=10.1039%2fc9ra09678g&partnerID=40&md5=1da4a0064b0f0e4819d2af428ef305ce
2002	Applications of Molecular Structural Aspects of Gemini Surfactants in Reducing Nanoparticle-Nanoparticle Interactions	Department of Chemistry, Natural and Applied Sciences, University of Wisconsin - Green Bay, 2420 Nicolet Drive, Green Bay, WI 54311-7001, United States; Nanotechnology Research Laboratory, College of North Atlantic, Labrador City, NL A2V 2K7, Canada; Department of Chemistry, Khalsa College, G.T. Road, Amritsar, Punjab, 143002, India; Department of Chemistry, B.B.K. D.A.V. College for Women, Amritsar, Punjab, 143005, India; Amity Institute of Applied Sciences, AUUP, Noida, 201304, India	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074840018&doi=10.1021%2facs.langmuir.9b02855&partnerID=40&md5=6c05b165c841f2b26188c443eeaaf094
2003	Occurrence of human urogenital myiasis due to neglected personal hygiene: A review	Post Graduate Department of Zoology, Khalsa College AmritsarPunjab, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059494806&doi=10.1093%2ftrstmh%2ftr107&partnerID=40&md5=bc795551bc652d35d9471381b6315c4c
2004	Isolation of phytochemicals from Bauhinia variegata L. Bark and their in vitro antioxidant and cytotoxic potential	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; State Key Laboratory of Subtropical Silviculture, Zhejiang A&F University, Hangzhou, 311300, China; Department of Biophysics, Panjab University, Chandigarh, 160014, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Agriculture, Food and Environment, University of Pisa, Pisa, 56124, Italy; Department of Plant Physiology, Faculty of Agrobiology and Food Resources, Slovak University of Agriculture, Nitra, 94976, Slovakia; Department of Botany and Plant Physiology, Faculty of Agrobiology, Food and Natural Resources, Czech University of Life Sciences, Prague, 16500, Czech Republic; Natural Product Chemistry and Process Development Division, CSIR-Institute of Himalayan Bioresource Technology, Palampur, Himachal Pradesh 176061, India	9	2019	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073717691&doi=10.3390%2fantiox8100492&partnerID=40&md5=5aab39c3b7562c2a877c546275b3b585
2005	Optical fog-assisted smart learning framework to enhance students' employability in engineering education	Department of Computer Science & Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071748770&doi=10.1002%2fcae.22120&partnerID=40&md5=8fb248bc0079e30a176c721927b49241
2006	User assisted cooperative relaying in beamspace massive MIMO NOMA based systems for millimeter wave communications	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068872318&doi=10.23919%2fjcc.2019.06.009&partnerID=40&md5=32bbfae04cdc0ef69e48877ea06e7bb3
2007	Effect of chickpea and spinach on extrusion behavior of corn grit	Department of Applied Agriculture, Central University of Punjab, Bathinda, 151001, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Food Processing and Preservation, Dev Samaj College for Women, Ferozepur City, 152002, India; Department of Food Science and Technology, Punjab Agricultural University, Ludhiana, 141005, India	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063013109&doi=10.1007%2fs13197-019-03712-x&partnerID=40&md5=f617f1207983f741aeb9dea924a82fe
2008	A comparative study of phytochemicals, antioxidant potential and in-vitro DNA damage protection activity of different oat (Avena sativa) cultivars from India	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Biotechnology, Chaudhary Devi Lal University, Sirsa, Haryana, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055294275&doi=10.1007%2fs11694-018-9950-x&partnerID=40&md5=68449e25f86648d3b0fef69c2fd759e2
2009	Complexation Behavior of β -Lactoglobulin with Surface Active Ionic Liquids in Aqueous Solutions: An Experimental and Computational Approach	Department of Chemistry, UGC-Centre for Advance Studies - II, Guru Nanak Dev University, Amritsar, 143005, India; Department of Earth Resources Engineering, Faculty of Engineering, Kyushu University, Fukuoka, 819-0395, Japan	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062438387&doi=10.1021%2facs.ipcb.8b11610&partnerID=40&md5=62cad4010d511a2b825b23502cffe00
2010	Understanding the mechanism of adsorption of CTAB and polylysine on silver nanoparticles and detection of Hg 2+ : Experimental and DFT study	Department of Physics, Centre of Advanced Study in Physics, Panjab University, Chandigarh, 160014, India; Institute Instrumentation Centre, Indian Institute of Technology Roorkee247667, India; Department of Chemistry, Guru Nanak Dev University College, Chungh, Distt. Tarnataran, India; Department of UIET, Panjab University SSG Regional Centre Hoshiarpur, Panjab, 146001, India	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059446384&doi=10.1016%2fj.molliq.2018.12.106&partnerID=40&md5=62eb179a0478aec521aa2858022266f8

2011	Hard, medium-hard and extraordinarily soft wheat varieties: Comparison and relationship between various starch properties	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056897020&doi=10.1016%2fj.iibiomac.2018.11.192&partnerID=40&md5=520114de9e7bc55a26c6eedc88a6315c
2012	Antimicrobial Potential of Fungal Endophytes from Moringa oleifera	Microbial Technology Laboratory, Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050569264&doi=10.1007%2fs12010-018-2770-y&partnerID=40&md5=c1b6edf25a1367e41fb0f443c6b3324c
2013	Antioxidant Potential and Extracellular Auxin Production by White Rot Fungi	ICAR-Central Soil Salinity Research Institute, Karnal, 132001, India; Microbial Technology Laboratory, Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Biosciences, Manipal University, Jaipur, 303007, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049690405&doi=10.1007%2fs12010-018-2842-z&partnerID=40&md5=7df27e981315fcfa124ee1217498859e
2014	SNPs in 3'-UTR region of MBL2 increases susceptibility to recurrent vulvovaginal infections by altering sMBL levels	Department of Molecular Biology & Biochemistry, Guru Nanak Dev University, Amritsar, India; Department of Gynaecology & Obstetrics, Bebe Nanki Mother and Child Care Centre, Government Medical College, Amritsar, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057041436&doi=10.1016%2fj.imbio.2018.10.009&partnerID=40&md5=b6402523029774809818c0e6ba955499
2015	Design and Applications of Small Molecular Probes for Calcium Detection	Department of Chemical Sciences, IKG-Punjab Technical University, Kapurthala, Punjab 144603, India; Department of Chemistry, Kanya Maha Vidyalaya, Jalandhar, 144004, India; Department of Chemistry, UGC Sponsored Centre for Advanced Studies-1, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076448388&doi=10.1002%2fasia.201901149&partnerID=40&md5=6d590791c7ff33a8304e35d6265637fd
2016	Development and characterization of Solid-SNEDDS formulation of DHA using hydrophilic carrier with improved shelf life, oxidative stability and therapeutic activity	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143105, India; Department of Biotechnology, Indian Institute of Technology, Roorkee, Uttarakhand 247667, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143105, India; Department of Pathology, Government Medical College, Amritsar, Punjab 143001, India; Department of Orthopaedics, Government Medical College, Amritsar, Punjab 143001, India	7	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073690102&doi=10.1016%2fj.jddst.2019.101326&partnerID=40&md5=8479a7029f829764ff46e04700175349
2017	Interactions in the mixed micelles of monomeric and gemini surfactants: Influence of some co-solvents as a function of temperature	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84959167725&doi=10.1016%2fj.arabjc.2015.12.009&partnerID=40&md5=3739f2af43d62eef6436612bdd45e9de
2018	A perylenediimide based 'on-off' chemosensor for the detection of nucleoside triphosphates: An efficient ensemble for monitoring alkaline phosphatase activity	Department of Chemistry, MG DAV College, Bathinda, 151001, India; Department of Chemistry, UGC Centre of Advanced Studies-II, Guru Nanak Dev University, Amritsar, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074286269&doi=10.1039%2fc9ay01608b&partnerID=40&md5=1447bcf2c8d5c8bd53bc0fb80a7d76b7
2019	New indices regarding the dominance and diversity of communities, derived from sample variance and standard deviation	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botany, DAV University, Sarmastpur, Jalandhar, Punjab 144012, India; State Key Laboratory of Subtropical Silviculture, Zhejiang A & F University, Hangzhou, 311300, China	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073015919&doi=10.1016%2fj.heliyon.2019.e02606&partnerID=40&md5=fa1d14e95e44e91c23ea68677a656efd
2020	Structural, Dielectric, Ferroelectric and Magnetic Properties of (BNT-BT)-NCZF Composites Synthesized by a Microwave-Assisted Solid-State Reaction Route	Department of Physics and Astronomy, National Institute of Technology, Rourkela, Odisha 769008, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066788732&doi=10.1007%2fs11664-019-07304-5&partnerID=40&md5=2f6d2be38265df56b34dfae9e8c7e36e
2021	Major Phytoconstituents of Prunus cerasoides Responsible for Antimicrobial and Antibiofilm Potential Against Some Reference Strains of Pathogenic Bacteria and Clinical Isolates of MRSA	Microbial Technology Laboratory, Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062838363&doi=10.1007%2fs12010-019-02985-4&partnerID=40&md5=b530ec9e7f2011231950d0f585e57c04
2022	Bergapten inhibits chemically induced nociceptive behavior and inflammation in mice by decreasing the expression of spinal PARP, iNOS, COX-2 and inflammatory cytokines	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, India	6	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064194177&doi=10.1007%2fs10787-019-00585-6&partnerID=40&md5=71af4ba189d8778a6d0e1d9dbbaa4145
2023	Teratogenicity and accumulation of triclosan in the early life stages of four food fish during the bioassay	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063734942&doi=10.1016%2fj.ecoenv.2019.03.102&partnerID=40&md5=6cc1466b736b42b68557e83c816ebdfe
2024	Substituted 1,3-dioxoisindoline-4-aminoquinolines coupled via amide linkers: Synthesis, antiplasmodial and cytotoxic evaluation	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Medicine, University of California, San Francisco, CA, United States	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064190209&doi=10.1016%2fj.bioorg.2019.04.006&partnerID=40&md5=38e122c85b0dc13324abf04e5c688d0e

2025	Analytical mapping of research on disaster management, types and role of ICT during 2011–2018	Department of Computer Science and Engineering, Guru Nanak Dev University, Gurdaspur, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060216130&doi=10.1080%2f17477891.2019.1567457&partnerID=40&md5=7bfda10a0877566b4fbb19d9a5d3ea72
2026	Imaging of lysosomal activity using naphthalimide-benzimidazole based fluorescent probe in living cells	Department of Chemistry, UGC sponsored centre for advanced studies- II , Guru Nanak Dev University, Amritsar, Punjab, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India	8	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061193410&doi=10.1016%2fj.snb.2019.01.134&partnerID=40&md5=f69b0d95647150b14f199e0a1a8419f9
2027	A novel fused coupled chaotic map based confidential data embedding-then-encryption of electrocardiogram signal	Department of Electronics and Communication Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar, 144011, India; Department of Electronics and Communication Engineering, Dumka Engineering College, Dumka, 814101, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, 144007, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060856723&doi=10.1016%2fj.bbe.2018.11.012&partnerID=40&md5=42eb2085b922a7222e450e44a1a765e5
2028	Effect of native and gelatinized starches from various sources on sponge cake making characteristics of wheat flour	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061456732&doi=10.1007%2fs13197-019-03632-w&partnerID=40&md5=ad11be1b3062a30c0fd573d8a394cf58
2029	Amaranth: Potential source for flour enrichment	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, India; Department of Applied Agriculture, Central University of Punjab, Bathinda, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093493806&doi=10.1016%2fB978-0-12-814639-2.00010-1&partnerID=40&md5=9738a7721d791fe6be87935018527bc1
2030	Maize: Composition, bioactive constituents, and unleavened bread	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; Department of Food Science and Technology, Khalsa College, Amritsar, India; Department of Applied Agriculture, Central University of Punjab, Bathinda, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092633506&doi=10.1016%2fB978-0-12-814639-2.00009-5&partnerID=40&md5=f8e60b3d0aceca3e8235cae427826553
2031	Aggregation tailored emission of a benzothiazole based derivative: Photostable turn on bioimaging	Department of Chemistry, UGC-Centre of Advanced Study, Guru Nanak Dev University, Amritsar, 143005, India; Discipline of Biosciences and Bio-Medical Engineering, Indian Institute of Technology Indore Simrol, Khandwa Road, Indore, 453552, India; Discipline of Chemistry, Indian Institute of Technology Indore Simrol, Khandwa Road, Indore, 453552, India; Discipline of Metallurgy Engineering and Materials Science, Indian Institute of Technology Indore Simrol, Khandwa Road, Indore, 453552, India; Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India	7	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076705300&doi=10.1039%2fc9a08149f&partnerID=40&md5=cdded9b49b6db0d3a088cabdbb213b7b4
2032	Organocatalytic enantioselective conjugate addition of pyrazolin-5-ones to arylomethylidene malonates	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074620608&doi=10.1039%2fc9ob01700c&partnerID=40&md5=61fbf5396c4b070a904c803f60eaa96b
2033	Comparative Analysis of High Speed 20/20 Gbps OTDM-PON, WDM-PON and TWDM-PON for Long-Reach NG-PON2	Punjabi University, Patiala, 147002, India; Guru Nanak Dev University Regional Campus, Gurdaspur, 143521, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070675735&doi=10.1515%2fjoc-2019-0005&partnerID=40&md5=6bfa1c3b682a098eed7243dfcb71154
2034	Modulation of biochemical and physiological parameters in Hordeum vulgare L. Seedlings under the influence of benzyl-butyl phthalate	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070577931&doi=10.7717%2fpeerj.6742&partnerID=40&md5=a0ca1b8b147f41a01a3fe6ae95c7598b
2035	A new sustainable approach towards preparation of sunlight active Ag/AgBr Janus nanoparticles using non-toxic surface active ionic liquid	Department of Chemistry, University Grants Commission (UGC), Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062594458&doi=10.1039%2fc9a00178f&partnerID=40&md5=06fd42593b89f6646b42e96b2cf7b3e4
2036	Targeting tyrosine kinase: Development of acridone – pyrrole – oxindole hybrids against human breast cancer	Department of Chemistry, UGC Sponsored Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056480533&doi=10.1016%2fj.bmcl.2018.11.021&partnerID=40&md5=ce7b9a010451c183f368e20b024c8e9d
2037	Accumulation, morpho-physiological and oxidative stress induction by single and binary treatments of fluoride and low molecular weight phthalates in Spirodela polyrhiza L. Schleiden	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Environmental Science, University of Jammu, Jammu, 180016, India	7	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077312385&doi=10.1038%2fs41598-019-56110-w&partnerID=40&md5=4eee3859257efd73b3fd049d2f987f99
2038	Effect of Anisotropic Pressure on Electron Acoustic Oscillatory and Monotonic Shocks in Superthermal Magnetoplasma	Department of Physics, Guru Nanak Dev University, Amritsar, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076177053&doi=10.1029%2f2019RS006888&partnerID=40&md5=0742132ad3700c2480a3eba26f79bb57

2039	Nematicidal potential of Streptomyces antibioticus strain M7 against Meloidogyne incognita	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074075381&doi=10.1186%2f13568-019-0894-2&partnerID=40&md5=53d98d69a30d0f8d8f7838aa74f19fca
2040	Self-assembly of p-Aminothiophenol on Gold Surface: Application for Impedimetric and Potentiometric Sensing of Cobalt (II) Ions – A Comparative Study	Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070663753&doi=10.1002%2felan.201900187&partnerID=40&md5=f88a34ddfd0dcabb473e43382070aa89a
2041	Effect of α -glycosidase inhibitors from endophytic fungus Alternaria destruens on survival and development of insect pest Spodoptera litura Fab. and fungal phytopathogens	Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070223622&doi=10.1038%2fs41598-019-47838-6&partnerID=40&md5=268a2c7d6b1b36695e0f7e74db2c48f1
2042	Azolla pinnata, Aspergillus terreus and Eisenia fetida for enhancing agronomic value of paddy straw	Department of Zoology, Guru Nanak Dev University, Punjab, 143005, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061036867&doi=10.1038%2fs41598-018-37880-1&partnerID=40&md5=acf9ee6750113dab23a34d18d8d73f8b
2043	Variably connected 1,8-naphthalimide-7-chloroquinoline conjugates: Synthesis, anti-mycobacterial and cytotoxic evaluation	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Institut de Recherche en Infectiologie de Montpellier (IRIM), CNRS, UMR 9004, Université de Montpellier, France; INSERM, IRIM, Montpellier, 34293, France	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071993534&doi=10.1016%2fbi.bioorg.2019.103241&partnerID=40&md5=ecaf817a9deabb86d695f6d8442c04ba
2044	Correlation among lattice strain, defect formation and luminescence properties of transition metal doped ZnO nano-crystals prepared via low temperature technique	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Material Science Division, Inter University Accelerator Centre, Aruna Asif Ali Marg, New Delhi, 110067, India; Centre for Nanoscience and Nanotechnology, Panjab University, Chandigarh, India	7	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075239581&doi=10.1088%2f2053-1591%2fab4752&partnerID=40&md5=d1cca1d74316b35879cd6eef92349758
2045	Effects of doping of trivalent ions on glass and anti-glass phases of Bi2O3-Nb2O5-TeO2 system	Sensors and Glass Physics Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry and Process & Recourse Engineering, University of Cantabria, Santander, 39005, Spain	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070188225&doi=10.1016%2fj.inoncrvsol.2019.119565&partnerID=40&md5=e22bc7071f3e4282c73dc3af54972b17
2046	Tunable M-type nano barium hexaferrite material by Zn2+/Zr4+ co-doping	Department of Chemistry, UGC Center for Advanced Studies-II, Guru Nanak Dev University, Punjab, Amritsar, 143005, India; Department of Electronics Technology, Guru Nanak Dev University, Punjab, Amritsar, 143005, India; Department of Physics, Guru Nanak Dev University, Punjab, Amritsar, 143005, India; Analytical and Environmental Science Division and CIF, CSIR-Central Salt and Marine Chemicals Research Institute, Gijubhai Badheka Marg, Gujarat, Bhavnagar, 364002, India; Department of Chemistry, Hindu College, Punjab, Amritsar, 143001, India	8	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073634916&doi=10.1088%2f2053-1591%2fab4894&partnerID=40&md5=0151a2ed204a78fba396af44b7d7be4
2047	Do CEO characteristics explain firm performance in India?	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070896281&doi=10.1108%2fjsma-02-2019-0027&partnerID=40&md5=d9fdf2827813e7e0a7226be5642e823f
2048	AIEE Active Nanoassemblies of Pyrazine Based Organic Photosensitizers as Efficient Metal-Free Supramolecular Photoredox Catalytic Systems	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070901659&doi=10.1038%2fs41598-019-47588-5&partnerID=40&md5=23a2c06fa573bb3c016582fca6e6f1e4
2049	Construction and analysis of a novel sac-ocdma system with edw coding using direct detection technique	Research Scholar, IKG PTU Kapurthala, ECE, Kapurthala, India; Department of ECE, KCET, Amritsar, Punjab, India; Department of Electronics, GNDU RC, Jalandhar, Punjab, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85037716411&doi=10.1515%2fjoe-2017-0061&partnerID=40&md5=4e6d66fc050470cf300b5eeb855e9af7
2050	Impact of SNPs interplay across the locus of MBL2, between MBL and Dectin-1 gene, on women's risk of developing recurrent vulvovaginal infections	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, India; Department of Obstetrics and Gynaecology, Bebe Nanki Mother and Child Care Centre, Government Medical College, Amritsar, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065474660&doi=10.1186%2fs13578-019-0300-4&partnerID=40&md5=12913758f4270d620a1a733a22bff1a4
2051	Unprecedented synthesis of symmetrical azines from alcohols and hydrazine hydrate using nickel based NNN-pincer catalyst: An experimental and computational study	Department of Chemistry, UGC Sponsored Centre of Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062065299&doi=10.1016%2fj.catcom.2019.02.024&partnerID=40&md5=9ef4f84e987b9231854d43bcd5111aa8
2052	Dielectric and microwave reflection properties of M-phase LNT (Li-Nb-Ti-O) solid solutions in X-band frequency range	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059692597&doi=10.1016%2fj.jallcom.2019.01.020&partnerID=40&md5=467176742238cf8e270f3ab2c2b90266

2053	Effect of three-step calcination on structural, magnetic and microwave properties of BaFe 11.5 Ti 0.5 O 19 hexaferrite	School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060849375&doi=10.1016%2fi.ceramint.2019.01.233&partnerID=40&md5=7166650ceba664e4a463d2d6e187379f
2054	Elevated oxidative DNA damage in patients with coronary artery disease and its association with oxidative stress biomarkers	Department of Human Genetics, Guru Nanak Dev University, Amritsar, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048782371&doi=10.1080%2f00015385.2018.1475093&partnerID=40&md5=2722f390812f550e83636ab7846f3afa
2055	Temperature sensor based on exfoliated graphene sheets produced by microwave assisted freezing induced volumetric expansion of carbonated water	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061594263&doi=10.1007%2fs10854-019-00878-0&partnerID=40&md5=b796c15049b80946b6ac6160c6d0c0ab
2056	Evaluation of genotoxic and cytotoxic effects of ethyl acetate extract of <i>Aspergillus flavus</i> on <i>Spodoptera litura</i>	Department of Zoology, Guru Nanak Dev University, Amritsar, India; Departments of Microbiology, Guru Nanak Dev University, Amritsar, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, India; Department cum National Centre for Human Genome Studies and Research, Panjab University, Chandigarh, India	7	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060160287&doi=10.1111%2fijam.14105&partnerID=40&md5=fa6a388b1f90a889f40e619acbe37026
2057	Connecting the dots between brand logo and brand image	Guru Nanak Dev University, Amritsar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059801006&doi=10.1108%2fAPJBA-06-2018-0101&partnerID=40&md5=83e7c1987a152ff8e2733fd1c859980b
2058	Molecular interaction between human SUMO-I and histone like DNA binding protein of <i>Helicobacter pylori</i> (Hup) investigated by NMR and other biophysical tools	Centre of Biomedical Research, SGPGIMS Campus, Lucknow, 226014, India; Dr. APJ Abdul Kalam Technical University, IET Campus, Sitapur Road, Lucknow, Uttar Pradesh 226031, India; Department of Biotechnology, Centre for Nanotechnology, Indian Institute of Technology Roorkee, Roorkee-247667Uttarakhand, India; Department of Chemistry, Gurunanak Dev University, Amritsar, 143005, India; Molecular and Structural Biology Division, CSIR-Central Drug Research Institute, Lucknow, 226031, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	9	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056645125&doi=10.1016%2fi.iibiomac.2018.11.054&partnerID=40&md5=3ea098a19e117bc79648699dcad10456
2059	A comparative study for removal of cadmium(II) ions using unmodified and NTA-modified <i>Dendrocalamus strictus</i> charcoal powder	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067686813&doi=10.1007%2fs40201-019-00345-2&partnerID=40&md5=ea0ab009450ee15d7417b306c400403d
2060	Automated employee evaluation using fuzzy and neural network synergism through IoT assistance	Guru Nanak Dev University, Amritsar, Punjab, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057342928&doi=10.1007%2fs00779-018-1186-6&partnerID=40&md5=5b7ee73d4ee19f6bd0d58b5637ad5267
2061	Design of GA and ontology based NLP frameworks for online opinion mining	Department of Computer Science and Applications, DAV University, Jalandhar, India; Department of Computer Science, GNDU, Amritsar, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068760584&doi=10.2174%2f1872212112666180115162726&partnerID=40&md5=67fc4a2ec185912421eb839ab03ba771
2062	Visible light promoted PANI@Au:CuO catalyzed sequential amination, azidation and annulation for the preparation of 2-arylbenzimidazoles	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar Punjab, 143005, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068394311&doi=10.1039%2fc9gc00350a&partnerID=40&md5=9829aa6ebe821c5f1a1b30f734449f86
2063	Relationship of Mixolab characteristics with protein, pasting, dynamic and empirical rheological characteristics of flours from Indian wheat varieties with diverse grain hardness	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064281083&doi=10.1007%2fs13197-019-03756-z&partnerID=40&md5=002f9f2067863cd3b3286ae48cd460ed
2064	Study of obliquely propagating electron acoustic shock waves with non-extensive electron population	Sikh National College, Banga, 144505, India; Research Scholar, I K Gujral Punjab Technical University, Kapurthala, 144601, India; Department of Applied Science, Lyallpur Khalsa College of Engineering, Jalandhar, 144001, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143 005, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057427198&doi=10.1088%2f2058-6272%2faead8&partnerID=40&md5=a467bcb06e2d06a732a0371b35136900
2065	Pharmacognostic characterization of <i>Myrica esculenta</i> leaves	IKG Punjab Technical University, Kapurthala, Punjab, India; Central Ayurveda Research Institute for Drug Development, CCRAS, Ministry of AYUSH, Government of India, Bidhannagar, Kolkata, West Bengal, India; School of Pharmacy, Abhilashi University, Chail Chowk, Mandi, HP, India; Khalsa College of Pharmacy, Amritsar, Punjab, India	5	2019	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045840134&doi=10.1016%2fj.iaim.2017.07.012&partnerID=40&md5=56432dae72a8858892f69d56003a5e0b

2066	Exploration of anti-insect potential of trypsin inhibitor purified from seeds of <i>Sapindus mukorossi</i> against <i>Bactrocera cucurbitae</i>	Department of Zoology, Guru Nanak Dev University Amritsar, Punjab, 143005, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University Amritsar, Punjab, 143005, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075209068&doi=10.1038%2fs41598-019-53495-6&partnerID=40&md5=8217dae17ed15a8794a6046ec9d5c33e
2067	IoT based assistive companion for hypersensitive individuals (ACHI) with autism spectrum disorder	CT Institute of Engineering, Management and Technology, Jalandhar, India; Khalsa College of Engineering and Technology, Amritsar, India; IKG Punjab Technical University, Kapurthala, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073521100&doi=10.1016%2fj.ajp.2019.09.030&partnerID=40&md5=b78d849975dc461820dbed704fa09fdd
2068	Modulation in quality attributes of dough and starch digestibility of unleavened flat bread on replacing wheat flour with different minor millet flours	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071657398&doi=10.1016%2fj.jbiomac.2019.08.252&partnerID=40&md5=ef8bd7688c0c31d367d55e56124a966c
2069	Structural effect of SWCNTs grown by PECVD towards NH ₃ gas sensing and field emission properties	Department of Physics, Jamia Millia Islamia (A Central University), New Delhi, India; Centre for Nanoscience and Nanotechnology, Jamia Millia Islamia, New Delhi, 110025, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	7	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068607176&doi=10.1016%2fj.materresbull.2019.110532&partnerID=40&md5=1123ae040d3cea96f8c609fc7aa61291
2070	Effect of precursors on the structural, magnetic, dielectric, microwave and electromagnetic properties of Co–Zr doped nanocrystalline strontium hexaferrites synthesized via sol–gel method	Department of Chemistry, Biochemistry and Physics, Hydrogen Research Institute, University of Quebec at Trois-Rivières, Trois-Rivières, QC G9A 5H7, Canada; Department of Chemistry, Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143 005, India; Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai, 400 085, India	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85100621099&doi=10.1007%2fs42452-019-1096-x&partnerID=40&md5=71fd2d79aa29fd23ebd9d072d98fbefe
2071	Hierarchy of Commonly Used DFT Methods for Predicting the Thermochemistry of Rh-Mediated Chemical Transformations	Department of Chemistry, UGC Sponsored Centre of Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India	1	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072880066&doi=10.1021%2facsoomega.9b01563&partnerID=40&md5=1800a6f03d12c122ad9d99161a665052
2072	Heat-Transfer Method: A Thermal Analysis Technique for the Real-Time Monitoring of <i>Staphylococcus aureus</i> Growth in Buffered Solutions and Digestate Samples	Division of Chemistry and Environmental Science, Faculty of Science and Engineering, Manchester Metropolitan University, John Dalton Building, Manchester, M15GD, United Kingdom; Division of Engineering, Faculty of Science and Engineering, Manchester Metropolitan University, John Dalton Building, Manchester, M15GD, United Kingdom; Division of Biomedical Science, Faculty of Healthcare Science, Manchester Metropolitan University, John Dalton Building, Manchester, M15GD, United Kingdom; Department of Chemistry, UGC-Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India; Newcastle University, School of Engineering, Merz Court, Newcastle Upon Tyne, NE1 7RU, United Kingdom	11	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072576057&doi=10.1021%2facsoomega.9b00409&partnerID=40&md5=b0e31e499ef9a1148a9504648c08d825
2073	Advanced multi-factor user authentication scheme for E-governance applications in smart cities	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050518944&doi=10.1080%2f1206212X.2018.1445352&partnerID=40&md5=bb13433413d07a075d367e6a0c0065de
2074	Oblique modulation of electron acoustic waves in nonextensive plasma	Research Scholar, I. K. Gujral Punjab Technical University, Kapurthala, 144601, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Applied Science, Lyallpur Khalsa College of Engineering, Jalandhar, 144001, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073882255&doi=10.1063%2f1.5094245&partnerID=40&md5=3c83e8ac9556ee2b7b3c2493ad3012c4
2075	Effect of structural and thermal disorder on the optical band gap energy of Cr ₂ O ₃ nanoparticles	Centre for Material Science and Engineering, National Institute of Technology Hamirpur, Himachal Pradesh, India; Department of Physics, National Institute of Technology Hamirpur, Himachal Pradesh, India; Department of Physics, Guru Nanak Dev University, Punjab, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069488543&doi=10.1088%2f2f2053-1591%2fab195c&partnerID=40&md5=7ec24afa775ab574dd71df2ce8199068
2076	Complexity sorting and coupled chaotic map based on 2D ECG data compression-then-encryption and its OFDM transmission with impair sample correction	Department of Electronics and Communication Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar, Punjab 144011, India; Department of Electronics and Communication Engineering, Dumka Engineering College, Dumka, 814101, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab 144007, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054128416&doi=10.1007%2fs11042-018-6681-2&partnerID=40&md5=52c70d50aff033065700b17da20a851f

2077	Multi-response optimization in environment friendly turning of AISI 304 austenitic stainless steel	Department of Mechanical Engineering, Punjabi University, Patiala, India; Department of Mechanical Engineering, Swami Sarvanand Giri Panjab University Regional Centre, Hoshiarpur, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059464338&doi=10.1108%2fMIMS-07-2018-0139&partnerID=40&md5=124b194aaa621bf902a1d27edb8c320a
2078	Structural and dielectric properties of (BaxMg1-x)(Ti0.95Sn0.05)O3 (x = 0.025, 0.05, 0.075 and 0.1) solid solutions	Department of Electronic Technology, Guru Nanak Dev University, Amritsar, Punjab, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065506134&doi=10.1007%2fs10854-019-00955-4&partnerID=40&md5=2a66214750130ad23aa92c3f4a5e91c9
2079	Plagiarism: An essay in terminology	Department of Library and Information Science, Guru Nanak Dev University, Amritsar, 143005, India; Department of Information Science, São Paulo State University (UNESP), Marília, Brazil	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064039152&doi=10.14429%2fdjlit.39.2.13937&partnerID=40&md5=4ff793d23b0f52c8f0cbcb4be2f90de8
2080	Effects of incorporation of groundnut oil and hydrogenated fat on pasting and dough rheological properties of flours from wheat varieties	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061698173&doi=10.1007%2fs13197-019-03633-9&partnerID=40&md5=daa01d9a75c71723ff3c111e747a5419
2081	A review on fate and remediation techniques of oil spills	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061548546&doi=10.26452%2fijrps.v10i1.1786&partnerID=40&md5=db1a51760a96e20546a8a3f29795a08f
2082	Role and Performance of Different Traditional Classification and Nature-Inspired Computing Techniques in Major Research Areas	Department of Computer Science, GNDU, Amritsar, India; Centre for IT solution, GNDU, Amritsar, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85122847026&doi=10.4108%2fjai.13-7-2018.158419&partnerID=40&md5=0f4815bb54f9e7a6a7cf2132350295f6
2083	Role and regulation of ROS and antioxidants as signaling molecules in response to abiotic stresses	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Biotechnology, Modern College of Arts, Science and Commerce, Ganeshkhind, Pune, Maharashtra, India; Department of Botany, DAV University, Jalandhar, Punjab, India	7	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078240640&doi=10.1016%2fj.fbr.2019.06.444&partnerID=40&md5=9f59798c309c30edd7a86c45ee73fbb2
2084	Synthesis and characterization of Zn2+-Zr4+ substituted barium hexaferrite by sol gel auto combustion method	Department of Chemistry, UGC Center for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Analytical and Environmental Science Division and CIF, CSIR-Central Salt and Marine Chemicals Research Institute, Gijubhai Badheka Marg, Bhavnagar, Gujarat, 364002, India	8	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071044386&doi=10.1016%2fj.matpr.2019.06.444&partnerID=40&md5=9f59798c309c30edd7a86c45ee73fbb2
2085	Analysis of bulk queue with additional optional service, vacation and unreliable server	Guru Nanak Dev University, India; Department of Mathematics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Mathematics, Indian Institute of Technology, Roorkee, 247667, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069916514&doi=10.1504%2fIJMOR.2019.100738&partnerID=40&md5=e305bc16425fa9e6f968028593f1d7c2
2086	Energy efficient e-healthcare framework using HWPSO-based clustering approach	Department of Electronics and Communication Engineering, National Institute of Technology Silchar, India; Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065847439&doi=10.3233%2fJIFS-169957&partnerID=40&md5=fe326c747fcf3c08c55b062ebc164d15
2087	A secure multi-factor ECC based authentication scheme for Cloud-IoT based healthcare services	Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus, Ladhewali, Jalandhar, Punjab, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063332212&doi=10.3233%2fJIFS-190516&partnerID=40&md5=dd21d1bc88cbbd2147009633a27d09ac
2088	Synthesis, anti-mycobacterial and cytotoxic evaluation of substituted isoindoline-1,3-dione-4-aminoquinolines coupled: Via alkyl/amide linkers	Department of Chemistry, Guru Nanak Dev University, Amritsar-Punjab, 143005, India; Institut de Recherche en Infectiologie (IRIM) de Montpellier, CNRS, UMR 9004, Université de Montpellier, France; INSERM, IRIM, Montpellier, 34293, France	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062971309&doi=10.1039%2fc8ra10532d&partnerID=40&md5=35b9adc71867484fec4fa7c17e45caa9
2089	Role of porous carriers in the biopharmaceutical performance of solid SMEDDS of canagliflozin	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, Punjab 147002, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061975519&doi=10.2174%2f1872211312666181008111354&partnerID=40&md5=ac4124b55f3f9aeb22da5170a668101f
2090	Mefenamic acid-loaded solid SMEDDS: An innovative aspect for dose reduction and improved pharmacodynamic profile	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	3	2019	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058117360&doi=10.4155%2ftde-2018-0053&partnerID=40&md5=821926e6977fd3f9a7bb5f8bf7118a5c

2091	Faba bean (<i>Vicia faba</i>) starch: Structure, properties, and in vitro digestibility—A review	Department of Food Science and Technology, Chaudhary Devi Lal University, Sirsa, India; Department of Food Science and Technology, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089251040&doi=10.1002%2fleg3.18&partnerID=40&md5=171fc62d06cd157567d8f022378c6649
2092	Evaluation of the role of rhizobacteria in controlling root-knot nematode infection in <i>Lycopersicon esculentum</i> plants by modulation in the secondary metabolite profiles	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Indian Institute of Integrative Medicine (CSIR-IIIM), Council of Scientific and Industrial Research, Jammu and Kashmir, 180001, India; State Key Laboratory of Subtropical Silviculture, Zhejiang AandF University, Hangzhou, Zhejiang, 311300, China; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Botany and Microbiology, College of Science, King Saud University, Riyadh, 11451, Saudi Arabia; Department of Botany, S.P. College Srinagar, Srinagar, Jammu and Kashmir, 190001, India	10	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083734487&doi=10.1093%2faobpla%2fplz069&partnerID=40&md5=4359bf266468635ffe2d2cb905e91324
2093	Comparative modeling and mutual docking of structurally uncharacterized heat shock protein 70 and heat shock factor-1 proteins in water buffalo	ICAR-National Bureau of Animal Genetic Resources, Karnal, Haryana, India; Department of Biotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India; Department of Veterinary Microbiology and Biotechnology, Rajasthan University of Veterinary and Animal Sciences, Bikaner, Rajasthan, India; Department of Agriculture, Maharishi Markandeshwar University, Ambala, Haryana, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India	8	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077882185&doi=10.14202%2fvetworld.2019.2036-2045&partnerID=40&md5=f2557110fc410c59114b88df34de2336
2094	Impact of Aromatic Counter-Ions Charge Delocalization on the Micellization Behavior of Surface-Active Ionic Liquids	Department of Chemistry, UGC-Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India; Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074566460&doi=10.1021%2facs.langmuir.9b02695&partnerID=40&md5=c60d3e9eed0935d45262f3d23496373e
2095	Entropically Favoured Assembly of Pyrazine-Based Helical Fibers into Superstructures: Achiral/ Chiral Guest-Induced Chirality Transformation	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074118215&doi=10.1002%2fanie.201908669&partnerID=40&md5=26ac60960dc72d72aa7b2158d93492c7
2096	Effect of positron density and temperature on the electron acoustic waves in a magnetized dissipative plasma	Research Scholar, Department of Applied Science, I. K. Gujral Punjab Technical University, Kapurthala, India; Department of Applied Science, Lyallpur Khalsa College of Engineering, Jalandhar, India; Department of Physics, Guru Nanak Dev University, Amritsar, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074245019&doi=10.1002%2fctop.201900047&partnerID=40&md5=60620b5fcb5256b62a8e413d6f122512
2097	Insights into biological properties of less explored bark of industrially important <i>Acacia catechu</i> Willd	Department of Botanical & Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Botany, DAV University, Jalandhar, 144012, India; Department of Botany, DAV College, Jalandhar, 144001, India; Department of Biochemistry, Sri Guru Ram Das Institute of Medical Sciences and Research, Amritsar, 143501, India	6	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067632156&doi=10.1016%2fj.indcrop.2019.111486&partnerID=40&md5=249c1f898e73b8d5a5ae05d60e1b9b18
2098	Reduction of hexavalent chromium (VI) by indigenous alkaliphilic and halotolerant <i>Microbacterium</i> sp. M5: comparative studies under growth and nongrowth conditions	Department of Microbiology, Guru Nanak Dev University, Amritsar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069841962&doi=10.1111%2fjam.14366&partnerID=40&md5=589f0458b94f7cac040354498f2dabe8
2099	High temperature-mediated rocksalt to wurtzite phase transformation in cadmium oxide nanosheets and its theoretical evidence	Inter University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Condensed Matter Theory Group, Department of Physics and Astronomy, Uppsala University, Box 516, Uppsala, 77120, Sweden; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; South Ural State University, Chelyabinsk, 454080, Russian Federation; UGC-DAE Consortium for Scientific Research, University Campus, Khandwa Road, Indore, 452017, India	8	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070805101&doi=10.1039%2fc9nr01832h&partnerID=40&md5=3f3b26fb0be447cd4fe878a120f500fea

2100	Response surface methodology (RSM) for optimization of cadmium ions adsorption using C16-6-16 incorporated mesoporous MCM-41	Manav Rachna International Institute of Research and Studies, Faridabad, Haryana, India; Guru Nanak Dev University, Amritsar, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85099919191&doi=10.1007%2fs42452-019-0922-5&partnerID=40&md5=da60e146cce9757c610e0cc4abbd669f
2101	Fabrication of sensitive SWCNT sensor for trace level detection of reducing and oxidizing gases (NH ₃ and NO ₂) at room temperature	Department of Physics, Jamia Millia Islamia (A Central University), New Delhi, India; Centre for Nanoscience and Nanotechnology, Jamia Millia Islamia, New Delhi, 110025, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	6	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059610820&doi=10.1016%2fj.physe.2018.11.020&partnerID=40&md5=ac4d550ce7a957fbb67933a00406a237
2102	Diversity in protein secondary structure, molecular weight, mineral and amino acid composition of lentil and horse gram germplasm	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; National Bureau of Plant Genetic Resources, Regional Station, Phagli, Shimla, HP 171004, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062642832&doi=10.1007%2fs13197-019-03676-y&partnerID=40&md5=22766aa31d66f1cf2533b7fc4e9d75be
2103	Synthesis and fabrication of zinc oxide nanostrands based piezoelectric nanogenerator	Guru Nanak Dev University, Amritsar, Punjab 143001, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060823684&doi=10.1007%2fs10854-019-00732-3&partnerID=40&md5=0d7fc8e114eeee40efff854bbda76b99
2104	An intelligent validation system for diagnostic and prognosis of ultrasound fetal growth analysis using Neuro-Fuzzy based on genetic algorithm	Department of Computer Engineering & Technology, Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055443377&doi=10.1016%2fjeij.2018.10.002&partnerID=40&md5=972127adfa7cb01aa3973a8d4038ebd2
2105	Influence of Phosphate-Based Salts on Enthalpy of Dilution and Isentropic Compressibility Properties of Saccharides and Their Derivatives in Aqueous Solutions	Department of Chemistry, Gandhi Memorial National College, Ambala Cantt, Haryana, 133001, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061972690&doi=10.1021%2facs.iced.8b00681&partnerID=40&md5=67fd48d52a3a95ee4437eaf315ca186
2106	A novel mutation in MERTK for rod-cone dystrophy in a North Indian family	Department of Human Genetics, Guru Nanak Dev University, Amritsar, India; Dr. Daljit Singh Eye Hospital, Amritsar, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045222737&doi=10.1016%2fj.jcoj.2018.02.008&partnerID=40&md5=1c69a54b9cae76bc31be8e10d9015bb7
2107	A Study of Data Threats and the Role of Cryptography Algorithms	Department of PGP, Indian Institute of Management Amritsar, Amritsar, India; Department of Electronics Communication Engineering, Guru Nanak Dev University RC Jalandhar, Jalandhar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062063804&doi=10.1109%2fHfEMCON.2018.8614943&partnerID=40&md5=0b13b328b26d75829b6a48ce4c77eeb0
2108	Vermistabilization and detoxification of sugar industry sludges by earthworms	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; River Basin Research Center, Gifu University, Gifu, Japan	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076750687&doi=10.1016%2fB978-0-12-815907-1.00004-0&partnerID=40&md5=5d44bc95c2ed69d1c3d15a75181e52c0
2109	Self-microemulsifying drug delivery system for problematic molecules: An update	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, Punjab 147002, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075717909&doi=10.2174%2f1872210513666190619102521&partnerID=40&md5=9d740a865daba16445871b5b1e3fc88a
2110	Structural, dielectric and magnetic properties of Al-Mn substituted nano-sized M-type strontium hexagonal ferrites	Department of Physics, Lovely Professional University, Phagwara, Punjab, 144411, India; Department of Physics, Faculty of Science, Federal University Dutse, P.M.B. 7156, Dutse, Jigawa state, Nigeria; SRM Research Institute, SRM University, Kattankulathur, Chennai, Tamil Nadu, 603203, India; Department of Chemistry, Lovely Professional University, Phagwara, Punjab, 144411, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	7	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073058752&doi=10.1016%2fj.matpr.2019.06.392&partnerID=40&md5=79059020ebde0038527cdc828d489079
2111	Bio-mimetic self-assembled computationally designed catalysts of Mo and W for hydrogenation of CO ₂ /dehydrogenation of HCOOH inspired by the active site of formate dehydrogenase	Department of Chemistry, UGC Sponsored Centre of Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072848680&doi=10.1039%2fc9cp03406d&partnerID=40&md5=4d226a216ff50c12ed09288341db57a1
2112	Synthesis of 2-acetylpyridine-N-substituted thiosemicarbazones of copper(II) with high antimicrobial activity against methicillin resistant <i>S. aureus</i> , <i>K. pneumoniae</i> 1 and <i>C. albicans</i>	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143 005, India; Departamento de Quimica Inorganica, Facultad de Farmacia, Universidad de Santiago, Santiago, 15782, Spain; Department of Chemistry, Keene State College, Keene, NH 03435, United States	8	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069752423&doi=10.1039%2fc9nj01459d&partnerID=40&md5=90da2e4707b6e9cf242936c288b6980c

2113	Intelligent monitoring and controlling of public policies using social media and cloud computing	Department of Computer Engineering & Technology, Guru Nanak Dev University, Amritsar, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; School of Management, Emerging Market Research Center (EMaRC), Swansea University, Swansea, United Kingdom	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058565993&doi=10.1007%2f978-3-030-04315-5_11&partnerID=40&md5=e45a78d9ef90a85cba768aaa1487facd2_6&partnerID=40&md5=6fba16e59b7f5446108bc8698de1a386
2114	An enhanced post-migration algorithm for dynamic load balancing in cloud computing environment	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055093734&doi=10.1007%2f978-981-13-1544-2_6&partnerID=40&md5=6fba16e59b7f5446108bc8698de1a386
2115	When things become friends: A semantic perspective on the social Internet of Things	Department of CSE, GNDU Regional Campus, Jalandhar, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050390765&doi=10.1007%2f978-981-10-8971-8_15&partnerID=40&md5=3f4c4e9124d041ea58da105d9a5f9288
2116	Demographic influences on consumer decisions in the banking sector: evidence from India	Department of Commerce, Manipal Academy of Higher Education, Madhav Nagar, Manipal, Karnataka 576104, India; University School of Financial Studies, Guru Nanak Dev University, Amritsar, Punjab 143001, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075136583&doi=10.1057%2fs41264-019-00067-4&partnerID=40&md5=d1ddf3024931f0c5a902e0441fee8dca
2117	Effect of Starting Mn Precursor on the Structural and Ferroelectric Properties of BCT Based Solid Solutions	Material Science and Characterization Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India; Multifunctional Material Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India	6	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077194099&doi=10.1080%2f10584587.2019.1674968&partnerID=40&md5=9b9219dee5181186c5eaedd1a57bd070
2118	Development of qos optimized routing using artificial bee colony and tabu-ga with a mobile base station in wireless sensor network	I.K.Gujral Punjab Technical University, Jalandhar, Punjab, India; Khalsa College of Engineering & Technology, Amritsar, Punjab, India; DAV institute of Engineering, Management & Technology, Jalandhar, Punjab, India; DIT, BBAU (A Central University), Lucknow, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075132406&doi=10.35940%2fjijtee.K1839.119119&partnerID=40&md5=33b16b3dc9678f85bb689c2f0e375595
2119	Highly sensitive and selective liquefied petroleum gas sensor based on novel ZnO–NiO heterostructures	Department of Applied Physics, Chandigarh University, Gharuan, Mohali, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074290407&doi=10.1007%2fs10854-019-02368-9&partnerID=40&md5=2ae6a6383a7e95c0e139c47b0571f859
2120	Characterization of thermo-mechanical behavior of dough and starch digestibility profile of minor millet flat breads	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072767118&doi=10.1016%2fj.jcs.2019.102842&partnerID=40&md5=249457d00d8ce7e466a805454d6f4d43
2121	Physicochemical, pasting, and thermal properties of starches isolated from different adzuki bean (<i>Vigna angularis</i>) cultivars	Department of Food Science & Technology, Guru Nanak Dev University, Amritsar, India; College of Dairy Science and Technology, Lala Lajpat Rai University of Veterinary and Animal Sciences, Hisar, India; Division of Food Science and Postharvest Technology, ICAR-Indian Agricultural Research Institute, New Delhi, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070702515&doi=10.1111%2fjifpp.14163&partnerID=40&md5=c0d65692388701966505d67e0188c2af
2122	Purification of a trypsin inhibitor from <i>Psoralea corylifolia</i> seeds and its influence on developmental physiology of <i>Bactrocera cucurbitae</i>	Department of Zoology, Guru Nanak Dev University AmritsarPunjab 143005, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University AmritsarPunjab 143005, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070552327&doi=10.1016%2fj.ijbiomac.2019.08.063&partnerID=40&md5=e900e7ad6d6193e346af6254eb12806a
2123	Microsponges enriched gel for enhanced topical delivery of 5-fluorouracil	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073664247&doi=10.1080%2f02652048.2019.1667447&partnerID=40&md5=187ecfa445d15e5afaf9d840f4b34e80

2124	Bandstop Passive Filter Characteristics of Hexagonal Ferrite Composites at X-Band	Department of ECE, Lovely Professional University, Phagwara, Punjab, India; School of Materials Science and Engineering, University of Science and Technology Beijing, Beijing, 100083, China; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Physics, University of Memphis, Memphis, United States; Department of ECE, Indian Institute of Technology, Roorkee, India; Department of Physics, LOCEM, Federal University of Ceará (UFC), Pici Campus, Fortaleza, CE, Brazil; Department of Physics, Electronics and Space Science, University School of Sciences, Gujarat University, Ahmedabad, Gujarat, India; Scientific-Practical Materials Research Centre NAS of Belarus, 19 P. Brovki Street, Minsk, 220072, Belarus; National University of Science and Technology MISIS, Leninsky Prospekt, 4, Moscow, 119049, Russian Federation; South Ural State University, Lenin Prospect, 76, Chelyabinsk, 454080, Russian Federation	11	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069725888&doi=10.1007%2fs11664-019-07424-y&partnerID=40&md5=380a8967d0e46f9f8c045d5bcda338aa
2125	AIEE Active Supramolecular Metallic Ensemble as "turn-On" Platform for Detection of Creatinine in Human Blood Serum at Picomolar Level	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	6	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072572812&doi=10.1021%2facssuschemeng.9b02860&partnerID=40&md5=6c3b900d85c40245cd4cd81f1f29081e
2126	Effect of debranning on grains and meal characteristics of different Indian and exotic wheat varieties	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Biotechnology, Ministry of Science & Technology, Government of India, National Agri-Food Biotechnology Institute (NABI), Mohali, 140306, India	7	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065387553&doi=10.1016%2fj.foodres.2019.04.036&partnerID=40&md5=4bdee2822df8a8fa7ca3e8f05e46cfc8
2127	Theoretical analysis of planar and non-planar electron - acoustic shock waves in electron-positron-ion plasma	Department of Applied Science, I. K. Gujral Punjab Technical University, Kapurthala, India; Department of Physics, Sikh National College, Banga, India; Department of Applied Science, Lyallpur Khalsa College of Engineering, Jalandhar, India; Department of Physics, Guru Nanak Dev University, Amritsar, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063860662&doi=10.1002%2fctpp.201900019&partnerID=40&md5=ec3fc60ea29be41e22f873f5aaf45615
2128	Oblique modulation of electron acoustic waves in superthermal plasma	Research Scholar, I. K. Gujral Punjab Technical University, Kapurthala, 144601, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Applied Science, Lyallpur Khalsa College of Engineering, Jalandhar, 144001, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074614572&doi=10.1088%2f1402-4896%2fab24f3&partnerID=40&md5=c831c861b8966c9534b09865266a889a
2129	Drivers of Corporate Risk Disclosure in Indian Non-financial Companies: A Longitudinal Approach	University School of Financial Studies, Guru Nanak Dev University, Amritsar, Punjab, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083711339&doi=10.1177%2f0258042X19851918&partnerID=40&md5=bae2a2ecd2971d638589b0ffb4feae36
2130	Purified winged bean protease inhibitor affects the growth of <i>Bactrocera cucurbitae</i>	Department of Zoology, Guru Nanak Dev University, Amritsar, 143 005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071660478&doi=10.1017%2fS0007485318000913&partnerID=40&md5=544ec64619e96f537e6c85c2087c0a6d
2131	Study of anti-glass phases in heavy metal oxide tellurite systems	Sensors and Glass Lab, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069754169&doi=10.1063%2f1.5113091&partnerID=40&md5=7b1778d39d61ab397b6aacec03b03f47
2132	Engineered Substrate for Cyclooxygenase-2: A Pentapeptide Isoconformational to Arachidonic Acid for Managing Inflammation	Department of Chemistry, Centre for Advanced Studies, Amritsar, 143005, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India	6	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063845522&doi=10.1021%2facs.jmedchem.9b00823&partnerID=40&md5=d7ce22f76b6074ef4f14f93ccfa52b8f
2133	Cross talk among reactive oxygen, nitrogen and sulfur during abiotic stress in plants	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Biotechnology, BBK DAV College for Women, Amritsar, Punjab, India; Department of Botany, School of Life Sciences, University of Kashmir, Srinagar, Jammu and Kashmir, India	10	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089113337&doi=10.1002%2f9781119468677.ch38&partnerID=40&md5=6ad76aa403f0efcdda2650740eb24f97
2134	Optimization of process parameters on hydroxymethylfurfural content, diastase and invertase activity of coriander honey	Department of Food Technology, Ch. Devi Lal State Institute of Engineering and Technology, Panniwala Mota, Haryana 125077, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Food Engineering and Technology, Sant Longowal Institute of Engineering and Technology, Longowal, Punjab 148106, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067256756&doi=10.1007%2fs13197-019-03774-x&partnerID=40&md5=2fb06d178a8ba60d9e423a1f1e56bbe3

2135	Design, synthesis, anti-mycobacterial and cytotoxic evaluation of C-4 functionalized 1,8-naphthalimide-heterocyclic hydrazide conjugates	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Institut de Recherche en Infectiologie de Montpellier (IRIM), CNRS, UMR 9004, Université de Montpellier, Montpellier, France; INSERM, IRIM, Montpellier, France	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062684295&doi=10.1111%2fcbdd.13503&partnerID=40&md5=8b8214cd756ef8a1099b5abef3b35807
2136	Board composition and corporate reporting on internet: Indian evidence	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068061077&doi=10.1108%2fjFRA-05-2017-0031&partnerID=40&md5=a6b994e66d703170d4c69508b24a90ba
2137	Nutrient recovery from pigeon dropping by using exotic earthworm <i>Eisenia fetida</i>	Department of Botanical & Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Zoology, Khalsa College Amritsar Punjab, India; River Basin Research Center, Gifu University, 1-1 Yanagido, Gifu, Japan	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060038129&doi=10.1016%2fj.scp.2019.01.003&partnerID=40&md5=a42ddaa281a531ed1d2ab1c519c515a2
2138	Genotypic-Phenotypic Screening of Galectin-3 in Relation to Risk Towards Rheumatoid Arthritis in North Indian Population	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Medical and Arthritis Care Centre, Amritsar, Punjab, India	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071836883&doi=10.1016%2fj.arcmed.2019.07.011&partnerID=40&md5=dfd5dea2662774ce9ec3124e831f47c8
2139	Structure of xMoO3-(100-x)TeO2 glasses by neutron diffraction and Reverse Monte Carlo modeling	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Centre for Energy Research, Hungarian Academy of Sciences, Konkoly Thege st 29-33, Budapest, 1121, Hungary; Solid State Physics Division, Bhabha Atomic Research Centre, Trombay, Mumbai, Maharashtra, 400085, India	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065849249&doi=10.1088%2f2053-1591%2fab1799&partnerID=40&md5=4ea4034e6024a36093be97ded1130baa
2140	A morphologically robust chaotic map based approach to embed patient's confidential data securely in non-QRS regions of ECG signal	Department of Electronics and Communication Engineering, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, 144011, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, 144007, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059683117&doi=10.1007%2fs13246-018-00718-1&partnerID=40&md5=f1c3fe451d7fcea0640a79c53febdd8d
2141	A hydrolase with esterase activity expressed from a fosmid gene bank prepared from DNA of a North West Himalayan glacier frozen soil sample	School of Biotechnology, Shri Mata Vaishno Devi University, Kakryal, Katra, Jammu and Kashmir 182320, India; Bioinformatics Infrastructure Facility (BIF), School of Biotechnology, Shri Mata Vaishno Devi University, Kakryal, Katra, Jammu and Kashmir 182320, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062148631&doi=10.1007%2fs13205-019-1621-z&partnerID=40&md5=1f24fe11482be648b808e5e1cda5d881
2142	Association of SELP Polymorphisms with Soluble P-Selectin Levels and Vascular Risk in Patients with Type 2 Diabetes Mellitus: A Case–Control Study	Department of Molecular Biology & Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Carewell Heart & Superspeciality Hospital, Amritsar, Punjab, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050666074&doi=10.1007%2fs10528-018-9881-6&partnerID=40&md5=397f3b47ec60ce1ccbf2fe33ca650dd
2143	Elemental Composition of Plants and Multivariate Analysis	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062284144&doi=10.1007%2fs40009-018-0715-1&partnerID=40&md5=13016a32eb44dff42b373fb7958de7cc
2144	Synthesis, antimicrobial activity and high cell viability of copper derivatives of 2-thiouracil, purine-6-thione and 2,4,6-trimercaptotriazine	Department of Chemistry, Guru Nanak Dev University, Amritsar, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, India; Department of Chemistry, Keene State College, Keene, NH, United States	7	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060950904&doi=10.1080%2f00958972.2019.1566539&partnerID=40&md5=a89a5fa031fa7e1bc82c8afd0640abd
2145	Modulatory role of vermicompost and vermishash on growth, yield and nutritional profiling of <i>Linum usitatissimum</i> L. (Linseed): a field study	Department of Applied Sciences, I.K.G. Punjab Technical University, Jalandhar, Punjab, India; Department of Zoology, Khalsa College, Amritsar, Punjab, India; Department of Chemical Sciences, I.K.G. Punjab Technical University, Jalandhar, Punjab, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057606366&doi=10.1007%2fs11356-018-3845-6&partnerID=40&md5=0b9e2131858660defb8ac91a97ad7ce
2146	Self-assembled monolayers of 3-Hydroxy-N-(5-mercapto-1,3,4-thiadiazol-2-yl) benzamide (HMTB): A platform for Impedimetric sensing of Co(II)	Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057605219&doi=10.1016%2fj.jelechem.2018.11.054&partnerID=40&md5=9bb542a301030cf148b4207f598291d4
2147	Triarylethylene-indolin-2,3-dione molecular conjugates: Design, synthesis, docking studies and anti-proliferation evaluation	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; School of Molecular and Cell Biology, University of the Witwatersrand, Private Bag 3, Wits, Johannesburg, 2050, South Africa; School of Chemistry and Physics, University of KwaZulu Natal, P/Bag X54001, Westville, Durban, 4000, South Africa; Department of Chemistry, DAV College, Amritsar, 143001, India	8	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077308680&doi=10.1039%2fc9ra08776a&partnerID=40&md5=1064186f077193a361bf0c8bb6af60fa

2148	Transition metal catalyzed [6 + 2] cycloadditions	Department of Chemistry, Khalsa College, Amritsar, Punjab, 143005, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemical Sciences, IKG Punjab Technical University, Kapurthala, Punjab, 144603, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071188571&doi=10.1039%2fc9ra02839k&partnerID=40&md5=c773da862ad7b7e719a617c812919cf2
2149	Fabrication of plasmonic dye-sensitized solar cells using ion-implanted photoanodes	Department of Physics, Guru Nanak Dev University, Amritsar, 143 005, India; Thin Film Devices Section, Technical Physics Division, Bhabha Atomic Research Centre, Mumbai, 400 085, India; National Physical Laboratory, New Delhi, 110012, India; Inter University Accelerator Centre, New Delhi, 110 0067, India	10	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068353846&doi=10.1039%2fc9ra02657f&partnerID=40&md5=3a0105fc79d63ccd7d772a7121071ebe
2150	Twitter Based Sentiment Analysis of GST Implementation by Indian Government	Department of Computer Science, Guru Nanak Dev University, Amritsar, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064643751&doi=10.1007%2f978-3-319-93940-7_17&partnerID=40&md5=08673258418f82c4ebfedad9dadf8de7
2151	Structural and magnetic investigations of a binuclear coordination compound of dysprosium(iii) dinitrobenzoate	Department of Chemistry, UGC Sponsored Centre of Advance Studies-II, Guru Nanak Dev University, Amritsar 143005, Punjab, India; Univ Rennes, CNRS, ISCR (Institut des Sciences Chimiques de Rennes), UMR 6226, Rennes, 35000, France	7	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063095030&doi=10.1039%2fC8DT04253E&partnerID=40&md5=4ec279f7a94f746aae5b0e17ea302772
2152	Failure prediction and health status assessment of storage systems with decision trees	Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059009828&doi=10.1007%2f978-981-13-3140-4_33&partnerID=40&md5=69a74e33cc88c9da66a5980e659cb23a
2153	Synthesis, Characterization, and Evaluation of Surface and Thermal Properties and Cytotoxicity of 2-Hydroxy-3-Phenoxypropyl Imidazolium Bola-Type Gemini Amphiphiles	Department of Chemistry, UGC Sponsored-Centre for Advance Studies–I, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, 143 005, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055179889&doi=10.1002%2fjsde.12203&partnerID=40&md5=6d8c2098f6df9bc9ce93b5f93ad41461
2154	Improved mutation-based particle swarm optimization for load balancing in cloud data centers	IKG Punjab Technical University, Jalandhar, Punjab, India; Guru Nanak Dev University, Amritsar, Punjab, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053282964&doi=10.1007%2f978-981-13-0761-4_88&partnerID=40&md5=133c1a044803596709de187c4edbfd4a
2155	Adsorption of bivalent lead ions from an aqueous phase system: Equilibrium, thermodynamic, kinetics, and optimization studies	Department of Chemistry, Manav Rachna International Institute of Research and Studies, Faridabad, India; Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075223203&doi=10.1002%2fwer.1180&partnerID=40&md5=d9fd8e54890d6b7a0428de2406d733b8
2156	Evaluation of head and broken rice of long grain Indica rice cultivars: Evidence for the role of starch and protein composition to head rice recovery	Department of Food Science & Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073514384&doi=10.1016%2fj.foodres.2019.108675&partnerID=40&md5=f38200a2c3cf143be9696a931fca4365
2157	Scientific validation of the antimicrobial and antiproliferative potential of Berberis aristata DC root bark, its phytoconstituents and their biosafety	Microbial Technology Laboratory, Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India; National Salmonella & Escherichia Centre and Diagnostic Reagents Laboratory, Central Research Institute, Kasauli, H.P. 173204, India; Department of Veterinary Pathology, Dr. G.C.Negi College of Veterinary and Animal Sciences, CSK Himachal Pradesh Krishi Vishvavidyalaya, Palampur, H.P. 176062, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072987158&doi=10.1186%2fs13568-019-0868-4&partnerID=40&md5=4683ede1420b37281a81d94a7643f18d
2158	Structural insights into the binding mechanism of Plasmodium falciparum exported Hsp40-Hsp70 chaperone pair	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070717295&doi=10.1016%2fj.compbiolchem.2019.107099&partnerID=40&md5=5551849b30a6f1ed113b24c7ca8600d9
2159	Semiclassical description of α - Radioactivity in even-even nuclei	Department of Physics, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Physics, University of Mumbai, Mumbai, 400 098, India; Nuclear Physics Division, Bhabha Atomic Research Centre, Mumbai, 400 085, India; Homi Bhabha National Institute, Training School Complex, Mumbai, 400 094, India; UM-DAE Centre for Excellence in Basic Sciences, Mumbai, 400 098, India	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081392757&doi=10.1088%2f1361-6471%2fab4485&partnerID=40&md5=345a1029799e47c316ff159bffe55233
2160	Small polaron hopping-assisted electrical conduction and relaxation in BCT and Mn-doped BCT samples	Material Science and Characterization Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075356001&doi=10.1080%2f21870764.2019.1693683&partnerID=40&md5=99389708fa7f0df3c7810e8d0b0376df
2161	Microstructure of Ni-Cr-Based Coating for Corrosive Conditions	Guru Nanak Dev University, Amritsar, Punjab, India; I.K. Gujral Punjab Technical University, Kapurthala, Punjab, India; Shaheed Bhagat Singh State Technical Campus, Ferozepur, India	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074279192&doi=10.1007%2fs11666-019-00936-3&partnerID=40&md5=8c9835d57f910f3a20a8447455ad61b8

2162	Toxicity assessment of chlorpyrifos on different organs of rat: exploitation of microbial-based enzymatic system for neutralization	Department of Zoology, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143 005, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070403171&doi=10.1007%2fs11356-019-06140-8&partnerID=40&md5=4164cd6b007defb82ec3efd0d60a2f86
2163	Endophytic bacteria in xenobiotic degradation	Department of Zoology, Lovely Professional University, Phagwara, India; Doaba College, Jalandhar, India; Department of Biotechnology, Lovely Professional University, Phagwara, India; Punjab Biotechnology Incubators, Mohali, India; Regional Advanced Water Testing Laboratory, Mohali, India; Regional Ayurveda Research Institute for Drug Development, Gwalior, India; Department of Natural Products, NIPER, Mohali, India; Department of Zoology, Khalsa College, Amritsar, India	9	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085704467&doi=10.1016%2fB978-0-12-818734-0.00006-1&partnerID=40&md5=7cfe840b8b86630c130cf74178e1351
2164	Click-chemistry approach to synthesis of functionalized isatin-ferrocenes and their biological evaluation against the human pathogen Trichomonas vaginalis	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Biological Sciences, University of the Pacific, Stockton, CA 95211, United States; Agricultural Research Service, United States Department of Agriculture, Albany, CA 94170, United States	6	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066794085&doi=10.1016%2fi.iorganchem.2019.05.025&partnerID=40&md5=4a032929ff1f9cc9d90403638cff936a
2165	Effect of Caffeine on the Physicochemical Properties of Neurotransmitter GABA: Thermodynamic and Theoretical Approach	Department of Chemistry, Khalsa College, Amritsar, Punjab, 143005, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Chemistry, Gandhi Memorial National College, Ambala Cantt, Haryana, 133001, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072636669&doi=10.1021%2facs.iced.9b00327&partnerID=40&md5=7e9dfa7f2ea3be96682a04a7aece08ac
2166	Hybrid Type-2 Fuzzy Based Channel Estimation for MIMO-OFDM System with Doppler Offset Influences	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, India; Department of Electronics and Communication Engineering, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065493487&doi=10.1007%2fs11277-019-06460-5&partnerID=40&md5=ac0ed638173eb4f536fd42f02b0d6ddb
2167	Achieving colossal Kerr nonlinearity via multiphoton atomic coherence in a five-level Λ - Ξ system	Department of Physics, Guru Nanak Dev University, Amritsar, 143 005, India; G.R.D School of Planning, Guru Nanak Dev University, Amritsar, 143 005, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074690402&doi=10.1088%2f1402-4896%2fab1cd2&partnerID=40&md5=c85599678ed672561e16325e9a155b2a
2168	Association of TNF- α gene alterations (c.-238G>A, c.-308G>A, c.-857C>T, c.-863C>A) with primary glaucoma in north Indian cohort	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India; Multidisciplinary Research Unit, Government Medical College, Amritsar, Punjab, India; Dr. Daljit Singh Eye Hospital, Amritsar, Punjab, India	5	2019	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066282811&doi=10.1016%2fi.gene.2019.05.035&partnerID=40&md5=10b46c01801151679c650d019a81ce20
2169	Ignatyuk damping factor: A semiclassical formula	Nuclear Physics Division, Bhabha Atomic Research Centre, Trombay, Mumbai, 400 085, India; Department of Physics, University of Mumbai, Vidyanagari Campus, Mumbai, 400 098, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143 005, India; Homi Bhabha National Institute, Training School Complex, Anushakti Nagar, Mumbai, 400 094, India; UM-DAE Centre for Excellence in Basic Sciences, University of Mumbai, Mumbai, 400 098, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072583971&doi=10.1142%2fS0218301319500617&partnerID=40&md5=8c588743e4329ee97de89096ad778710
2170	DNA based cloud storage security framework using fuzzy decision making technique	National Institute of Technology SilcharAssam, India; Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071009587&doi=10.3837%2ftiis.2019.07.025&partnerID=40&md5=86c5f38bd61ae388dc5abc03053625d8
2171	Investigation of Magnetic and Microwave Absorption Properties of Ba(1-2x)LaxNaxFe10CoTiO19 Hexaferrites in 18.0–26.5 GHz Band	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; D.A.V. Institute of Engineering and Technology, Jalandhar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056093888&doi=10.1007%2fs10948-018-4920-4&partnerID=40&md5=9e58f148a2003c1aa4f385e1dad97696
2172	Extent and drivers of CSR disclosure: evidence from Russia	University School of Financial Studies, Guru Nanak Dev University, Amritsar, 143005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070966737&doi=10.1080%2f19186444.2019.1652067&partnerID=40&md5=b8c18594f2d06121c72f55b00dcdf21b
2173	Kinetic Alfvén solitary waves in a plasma with two-temperature superthermal electron populations: The case of Saturn's magnetosphere	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Science and Engineering, Sorbonne University Abu Dhabi, United Arab Emirates; Centre for Plasma Physics, School of Mathematics and Physics, Queen's University Belfast, United Kingdom	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068003680&doi=10.1093%2fmnras%2fstz1221&partnerID=40&md5=b819f86687c6e3f6ea5e9eef3067b2a6

2174	Study on interactions of vitamin B1 with sodium dodecyl sulfate for potential food applications: Conductometric, volumetric, calorimetric and spectroscopic approach	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064914066&doi=10.1016%2fj.molliq.2019.04.094&partnerID=40&md5=3773bdbfc39225540d0ae569f4cef0ca
2175	Effect of induced transportation stress in goats supplemented with vitamin C and jaggery during hot dry season	Krishi Vigyan Kendra Leh, Sher e Kashmir University of Agricultural Science and Technology Kashmir, Srinagar, India; Dairy Cattle Physiology Division, National Dairy Research Institute, Karnal, India; Krishi Vigyan Kendra Kulgam, Sher e Kashmir University of Agricultural Science and Technology Kashmir, Srinagar, India; Department of Veterinary Extension, Khalsa College of Veterinary and Animal Sciences, Amritsar, India; Animal Nutrition Division, Sher e Kashmir University of Agricultural Science and Technology Kashmir, Srinagar, India	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044287610&doi=10.1080%2f09291016.2018.1452591&partnerID=40&md5=3749c19b73be248b18c18cd4582f86a4
2176	Structure-property correlations in molybdenum trioxide thin films and nanoparticles	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Physics, BBKDAV College for Women, Amritsar, Punjab, 143005, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069698690&doi=10.1088%2f2053-1591%2fab1855&partnerID=40&md5=3ce9661a18143929a7277cb7748704b9
2177	Characterization of a cold-active, detergent-stable metallopeptidase purified from Bacillus sp. S1DI 10 using Response Surface Methodology	Molecular Microbiology Lab, Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066261541&doi=10.1371%2fjournal.pone.0216990&partnerID=40&md5=18a8602bb37a7f9df18703afd82a32ac
2178	First report of potato virus M, potato virus Y and cucumber mosaic virus infection in Solanum nigrum in India	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Institute of Himalayan Bioresource Technology, Palampur, India; Post Graduate Department of Biotechnology, Khalsa College, Amritsar, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065033745&doi=10.1007%2fs42161-018-0194-8&partnerID=40&md5=759aac9c32c1fa23f426b4d739168528
2179	Inner membrane complex 1I protein of Plasmodium falciparum links membrane lipids with cytoskeletal element ‘actin’ and its associated motor ‘myosin’	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India; CSIR-Central Drug Research Institute, Lucknow, Uttar Pradesh, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Pharmaceutical Science, Guru Nanak Dev University, Amritsar, Punjab, India	10	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059470287&doi=10.1016%2fj.ijbiomac.2018.12.239&partnerID=40&md5=3b28e15ed866f109f1b504c23879490b
2180	Self-assembly and supramolecular isomerism in copper (II) coordination compounds of pyridine-4-carboxamide based ligand	Department of Chemistry, UGC Sponsored-Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055486677&doi=10.1016%2fj.ica.2018.10.042&partnerID=40&md5=3f34bcf4110f76f27d55b63d8abff202
2181	Do Firm- and Board-specific Characteristics Corroborate Underpricing? A Study on the Indian IPOs	University School of Financial Studies, Guru Nanak Dev University, Amritsar, Punjab, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084195613&doi=10.1177%2f0258042X18812582&partnerID=40&md5=d25843b808172dff694fba95cdc8cfe0
2182	The influence of substituents at C2/N1 atoms of pyridine-2-formaldehydde-/benzaldehyde-N1-substituted thiosemicarbazones on the type of copper(I) complexes	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Departamento De Quimica Inorganica, Facultad de Farmacia, Universidad de Santiago, Santiago, 15782, Spain; Department of Chemistry, Howard University, Washington, DC 20059, United States; Department of Chemistry, Faculty of Science, Tokyo University of Science, Kagurazaka, Shinjuku-Ku, Tokyo, 162-8601, Japan	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057367106&doi=10.1016%2fj.poly.2018.11.034&partnerID=40&md5=ada215cf7fe3fb33872d9b71a4b536d9
2183	Electron beam evaporated tin oxide thin films for thermistor applications	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091295553&doi=10.1016%2fj.matpr.2019.12.376&partnerID=40&md5=49ada68653390e49a6360c535c46d993
2184	Correlation between lattice deformations and optical properties of Ni doped ZnO at dilute concentration	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Centre for Nanoscience and Nanotechnology, Panjab University, Chandigarh, 160014, India; Materials Science Division, Inter University Accelerator Centre, New Delhi, 110067, India	7	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091270990&doi=10.1016%2fj.matpr.2019.12.001&partnerID=40&md5=741634784887d93f27974772223d0c8a
2185	Ethanol sensing using MoS2/TiO2composite prepared via hydrothermal method	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089133473&doi=10.1016%2fj.matpr.2020.01.584&partnerID=40&md5=3e165d697db4bca56803c1c4dabd1c29

2186	Role and regulation of plant hormones as a signal molecule in response to abiotic stresses	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Biotechnology, BBK DAV College for Women, Amritsar, Punjab, India; Department of Botany, School of Life Sciences, Satellite campus Kargil, University of Kashmir, Srinagar, Jammu and Kashmir, India	7	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081374857&doi=10.1016%2fB978-0-12-816451-8.00018-6&partnerID=40&md5=13495ab12eb8a4c5c434f751b5ae066c
2187	Hemicellulases for lignocellulosics-based bioeconomy	Department of Microbiology, Guru Nanak Dev University, Amritsar, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081286764&doi=10.1016%2fB978-0-12-816856-1.00018-X&partnerID=40&md5=72b87c37d7068aeda545e87065ee1306
2188	2-layer and 3-layer fiber geometry model based analysis of refractive index sensitivity of long period fiber grating with reduced cladding	Chitkara University, School of Engineering and Technology, Chitkara University, Himachal Pradesh, 174103, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Central Scientific Instruments Organization, Sector-30C, Chandigarh, 160030, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078394200&partnerID=40&md5=b380314faf260aac661111ee02eb6afb
2189	Effects of plasma electron temperature and magnetic field on the propagation dynamics of Gaussian laser beam in weakly relativistic cold quantum plasma	Department of Physics, DAV University, Sarmastpur, Jalandhar, 144012, India; Research Scholar, I.K.G. Punjab Technical University, Jalandhar, Kapurthala, 144603, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076590487&doi=10.1017%2fS0263034619000727&partnerID=40&md5=babce8ff48cef72fa8c00deb963e7747
2190	Can Tweets Predict Election Results? Insights from Twitter Analytics	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075236188&doi=10.1007%2f978-981-15-0108-1_26&partnerID=40&md5=053334e5d88d0fffb30dedae6cb19ec5
2191	Improved Performance Investigation of 10 Gb/s-10 GHz 4-QAM Based OFDM-Ro-FSO Transmission Link	Guru Nanak Dev University, Regional Campus, Gurdaspur, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074709684&doi=10.1515%2fioc-2019-0223&partnerID=40&md5=15ddc9aee3b764ffaa6cf8d0161f995a
2192	HMM-Based Secure Framework for Optical Fog Devices in the Optical Fog/Cloud Network	Department of Computer Science and Engineering, Khalsa College of Engineering and Technology, Amritsar, India; Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Punjab, Gurdaspur, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071569165&doi=10.1515%2fioc-2019-0155&partnerID=40&md5=8acca17acb3a1f49533580eb28774962
2193	Dynamics between bank-led financial inclusion and economic growth in emerging economies: The case of India	Punjab School of Economics, Guru Nanak Dev University, Amritsar, Punjab, India	1	2019	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069040543&partnerID=40&md5=f1680e4bb1a0f025877bbbc338c2642b
2194	Influence of samarium and iron substitution on structural and electrical properties of barium zirconate titanate solid solutions	Multifunctional Materials Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068576097&doi=10.1080%2f21870764.2019.1636927&partnerID=40&md5=382acaa563efa2365e638fdec86ec743
2195	Defluoridation of water using micelle templated MCM-41: Adsorption and RSM studies	Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Centre for I.T. Solutions, Guru Nanak Dev University, Amritsar, Punjab, 143001, India; Rachna International Institute of Research and Studies, Faridabad, Haryana, 121004, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067066381&doi=10.2166%2faqua.2019.013&partnerID=40&md5=d8ad9e68d7758dfa4b4f204f3fd890e1
2196	The hybrid antimalarial approach	Department of Chemistry and Chemical Sciences, Central University of Jammu, Jammu, India; Department of Chemistry, Centre of Advance Study-II, Guru Nanak Dev University, Amritsar, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066866328&doi=10.1016%2fbs.armac.2019.05.002&partnerID=40&md5=9bcaa54cf9c181182a1844b22f996c7e
2197	Utilization of flour from rice broken in wheat flour chapatti: evaluation of dough rheology, starch digestibility, glycemic index and retrogradation behavior	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064452019&doi=10.1007%2fs13197-019-03726-5&partnerID=40&md5=cf063db668a303607bd570953d2dbd4c
2198	Cost Efficient 4× 2.5 Gb/s Transparent WDM Ring Network using DML and MetroCor Fiber for Long Reach Applications	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059580676&doi=10.1515%2fioc-2016-0146&partnerID=40&md5=c37aa62af73f54b61acb515eb0183c04
2199	Visualizing the trajectory of a charged particle in electric and magnetic fields using an Excel spreadsheet	P.G. Department of Physics, Khalsa College, Amritsar, 143001, India; School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058033713&doi=10.1088%2f1361-6552%2faae3fd&partnerID=40&md5=7512e2a5f1cb9b59b2fc29c451c10d7a

2200	Synthesis, spectroscopic characterization and in vitro cytotoxic as well as docking studies of cis-diammine platinum(II) complexes of thiones	Department of Chemistry, King Fahd University of Petroleum and Minerals, Dhahran, 31261, Saudi Arabia; Department of Chemistry, College of Sciences and Humanities, Prince Sattam bin Abdulaziz University, Al-Kharj, 11942, Saudi Arabia; Lab Technical Support Office (LTSO), King Fahd University of Petroleum and Minerals, Dhahran, 31261, Saudi Arabia; Department of Chemistry, Islamic University of Madinah, Madinah, Saudi Arabia; Department of Molecular, Biology & Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India	9	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054066877&doi=10.1016%2fj.ica.2018.09.070&partnerID=40&md5=96e88be429fd0b94c017a9b64bd85c2b
2201	Evaluation of gain spectrum of dual/triple pumped fiber Raman amplifier (FRA) by optimizing its pumping parameters in the scenario of dense wavelength division multiplexed (DWDM) systems	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053797614&doi=10.1016%2fj.iileo.2018.09.067&partnerID=40&md5=0f5bcb46c246a51fdfec41f5716bdbc5
2202	Microwave-assisted synthesis of 11-substituted-3,3-dimethyl-2,3,4,5,10,11-hexahydrodibenzo[b,e][1,4]diazepin-1-one derivatives catalysed by silica supported fluoroboric acid as potent antioxidant and anxiolytic agents	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; University Institute of Pharmaceutical Sciences, Panjab University, Chandigarh, 160014, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	14	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074016676&doi=10.1007%2fs00044-019-02447-w&partnerID=40&md5=11f2bffa92013fcd5595da83fd70687
2203	Synthesis, In Silico Molecular Docking, ADME Evaluation and In Vitro Antiplasmodial Activity of Pyrimidine-Based Hybrid Molecules	Department of Chemistry, UGC Centre for Advanced Study-II, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, South African Medical Research Council Drug Discovery and Development Research Unit, Institute of Infectious Disease and Molecular Medicine, University of Cape Town, Rondebosch, 7701, South Africa	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075620995&doi=10.1002%2fslct.201903031&partnerID=40&md5=3a14952d9607d49c5bfa51f8663ec08
2204	Functional properties and dynamic rheology of protein isolates extracted from male and female common carp (Cyprinus carpio) muscle subjected to pH-shifting method	Department of Zoology, Guru Nanak Dev University, Amritsar, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	6	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072221382&doi=10.1111%2fjifpp.14181&partnerID=40&md5=3d3e7512f59cfa4eac55477a906e93c6
2205	Non-paraxial theory of self-focusing/defocusing of Hermite cosh Gaussian laser beam in rippled density plasmas	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India; Government Middle School, Raunt, Punjab, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071421307&doi=10.1002%2fctpp.201900026&partnerID=40&md5=0f4ee54825e2d5ba8e84ab6dc75bd59
2206	Mixed Micellar and Interfacial Studies of Triblock Copolymers with Amphiphilic Drug Ibuprofen in Aqueous Urea Solutions	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143 005, India; Department of Mathematics, DAV College, Amritsar, Punjab 143 001, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070679736&doi=10.1002%2fisd.12339&partnerID=40&md5=b366781823eed202bbb56f3bb63b3430
2207	Neutrino-driven Instability of Ion Acoustic Waves in an Ultrarelativistic Degenerate Plasma	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; SUPA, Department of Physics, University of Strathclyde, Glasgow, G4ONG, United Kingdom	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073755518&doi=10.3847%2f1538-4357%2fab3e0c&partnerID=40&md5=0321737013dfabe443be87e9e6b04a69
2208	Study of Uranium in Drinking Water around the Sohna Fault Line in Haryana	Department of Physics, Chandigarh University, Mohali, 143 001, India; Department of Physics, Guru Jambheshwar University of Science & Technology (GJUS&T), Hisar, 125 001, India; Department of Physics, Central University of Haryana, Mahendergarh, 123 031, India; Department of Physics, DAV College Amritsar, Amritsar, 141 003, India; Department of Physics, GNDU, Amritsar, 141 003, India	7	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073588996&doi=10.1007%2fs12594-019-1332-4&partnerID=40&md5=dcfabe7d469d21151340fb6bd42cf1d1
2209	A secure multifactor remote user authentication scheme for Internet of Multimedia Things environment	Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus, Jalandhar, Punjab, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073575548&doi=10.1002%2fdac.4077&partnerID=40&md5=e5a5cb8ec85edeab7fe0e955d1d982bd
2210	Combined mild and hard novel fabrication approach for nanoporous membrane	Guru Nanak Dev University, Amritsar, Punjab, India; Shaheed Bhagat Singh State Technical Campus, Ferozepur, Punjab, India	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073243768&doi=10.1007%2fs40430-019-1940-3&partnerID=40&md5=1b8c23b66449b9b845a3a6945f337b6a
2211	Structural tuning of acridones for developing anticancer agents targeting dihydrofolate reductase	Department of Chemistry, UGC Sponsored Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, 143005, India	7	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070868703&doi=10.1016%2fj.bmcl.2019.126631&partnerID=40&md5=83cea2495cc2deb2a175c2dac46a5ec2
2212	Indian students' attitude toward educational debt: scale development and validation	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069533578&doi=10.1108%2fQAE-12-2018-0131&partnerID=40&md5=3312c9b9aa9ee18afcdf189042f83267

2213	Genome-wide analysis of cyclophilin gene family in wheat and identification of heat stress responsive members	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Bioinformatics, Hans Raj Mahila Maha Vidyalaya, Jalandhar, Punjab 144008, India	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069657482&doi=10.1016%2fpligene.2019.100197&partnerID=40&md5=12831a992be986fcb6f1930b6f9200a
2214	Bioefficacy of Hexane Extract of <i>Inula racemosa</i> (Asteraceae) Against <i>Spodoptera litura</i> (Lepidoptera: Noctuidae) [Biowirksamkeit des Hexanextrakts aus <i>Inula racemosa</i> (Asteraceae) gegen <i>Spodoptera litura</i> (Lepidoptera: Noctuidae)]	Guru Nanak Dev University, Department of Zoology, Amritsar, Punjab 143005, India; Department of Natural Products, National Institute of Pharmaceutical Education and Research (NIPIER), S.A.S Nagar, Punjab 160062, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065013638&doi=10.1007%2fs10343-019-00462-w&partnerID=40&md5=96ebc073a8d8dfa3d7a8e23fc7ab1a8d
2215	Investigation of polymethyl methacrylate incorporated neodymium oxide for gamma-ray and neutron shielding behaviour	Department of Physics, Guru Nanak Dev University College Verka, Punjab, Amritsar, 143501, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072090726&doi=10.1063%2f1.5122503&partnerID=40&md5=08ed636b5727d7ff3f02e5cf26b3aa15
2216	Behavioral and Biochemical Implications of Dendrimeric Rivastigmine in Memory-Deficit and Alzheimer's Induced Rodents	Department of Pharmacy, School of Chemical Sciences and Pharmacy, Central University of Rajasthan, Bandarsindri, Ajmer, Rajasthan, 305817, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Cellular and Molecular Neurobiology Laboratory, Department of Life Science and Bioinformatics, Assam University, Silchar, Assam, 788011, India	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071701722&doi=10.1021%2facscchemneuro.9b00286&partnerID=40&md5=bc0b9db6dd201c4163cd387951de9520
2217	Examining the relationships between political advertisements, party brand personality, voter satisfaction and party loyalty	Department of Commerce, Guru Nanak Dev University, Amritsar, India; University School of Financial Studies, Guru Nanak Dev University, Amritsar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055742408&doi=10.1108%2fjibr-04-2018-0126&partnerID=40&md5=54b9b889a12eb3d75bb71bdc4a376b60
2218	Ni _{0.1} CO _{0.9} Fe ₂ O ₄ spinel ferrite as a promising magneto-dielectric substrate for X-band Microstrip Patch Antenna	Guru Nanak Dev University, Department of Electronics Technology, Amritsar, India; Yashavantrao Chavan Institute of Science, Department of Physics, Satara, India; Shivaji University, Department of Electronics, Kohlapur, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084282491&doi=10.1109%2fIEMETech48150.2019.8981054&partnerID=40&md5=f0e588f07af6c195b00303713927fa72
2219	Analysis of sum spectrum efficiency in multiple antennas multi-user MIMO cellular system for millimeter wave communications	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068991093&doi=10.1007%2fs12046-019-1162-5&partnerID=40&md5=1a35443ba3c9547f159d249d7d3f5580
2220	NMR characterization of conformational fluctuations and noncovalent interactions of SUMO protein from <i>Drosophila melanogaster</i> (dSmt3)	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Centre of Biomedical Research, Sanjay Gandhi Post-Graduate Institute of Medical Sciences Campus, Lucknow, Uttar Pradesh, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India	8	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064673507&doi=10.1002%2fprot.25690&partnerID=40&md5=df32fbe6a255607c0dd4576e927573e7
2221	Nanofluid-based minimum quantity lubrication (MQL) face milling of inconel 625	Mechanical Engineering Department, Punjabi University, Patiala, Punjab, 147002, India; Department of Mechanical Engineering, Guru Nanak Dev Engineering College, Ludhiana-Punjab, 141006, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089773744&doi=10.15282%2fijame.16.3.2019.04.0516&partnerID=40&md5=906cbb93be5b6b2f96cdbf0ec3db0d73
2222	Role of F-spin multiplets in identical band phenomena in normal deformed nuclei	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Nuclear and Atomic Physics, Tata Institute of Fundamental Research, Mumbai, 400005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065434535&doi=10.1016%2fj.nuclphysa.2019.05.004&partnerID=40&md5=6743eb9daa8ddc705ac9aa95a35e3054
2223	Role of Gluten in Surface Chemistry: Nanometallic Bioconjugation of Hard, Medium, and Soft Wheat Protein	Department of Chemistry, Natural and Applied Sciences, University of Wisconsin - Green Bay, 2420 Nicolet Drive, Green Bay, WI 54311-7001, United States; Nanotechnology Research Laboratory, College of North Atlantic, Labrador City, NL A2V 2K7, Canada; Department of Chemistry, B.B.K. D.A.V. College for Women, Amritsar, Punjab, 143005, India; Department of Biotechnology, DAV College, Amritsar, Punjab, 143005, India; Department of Chemistry, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab, 144011, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab, India	7	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069821970&doi=10.1021%2facsc.jafc.9b01015&partnerID=40&md5=9e65c82e23d51e588de60af614d3c7fc

2224	Genetic variation and population structure of five ethnic groups from Punjab, North-West India: Analysis of MHC class I polymorphic Alu insertions (POALINs)	Department of Anthropology, Panjab University, Chandigarh, 160014, India; Icahn School of Medicine at Mount Sinai, Tisch Cancer Institute, 1470 Madison Avenue, New York, NY 10029, United States; Department of Surgery-Transplant, Regenerative Medicine, DRC-II, University of Nebraska Medical Center, Omaha, NE 68198-5965, United States; Wildlife Institute of India, Dehradun, 248001, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	7	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063691772&doi=10.1016%2fi.gene.2019.03.057&partnerID=40&md5=d8fcebb4880df7f5c0be0d36464071ce
2225	Elucidating the intermolecular hydrogen bonding interaction of proline with amides—quantum chemical calculations	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056836607&doi=10.1007%2fs11224-018-1235-9&partnerID=40&md5=6cd7ccc52df4669632785fb8b4037d15
2226	Opto-electric and physio-chemical changes in oxygen ion irradiated natural Vermiculite mineral	Department of Physics, Hindu College, Amritsar, Punjab 143005, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062893409&doi=10.1016%2fj.apradiso.2019.03.004&partnerID=40&md5=9be534fb529d50e0c6f6e29304817ee5
2227	Performance comparison of coated carbide tool under different cooling/lubrication environments during face milling of Inconel-625 and Stainless Steel 304	Department of Mechanical Engineering, UCOE, Punjabi University Patiala, Patiala, Punjab, India; Department of Mechanical Engineering, Guru Nanak Dev Engineering College, Ludhiana, Punjab, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066042701&doi=10.1108%2fWJE-06-2018-0194&partnerID=40&md5=ef2e05e6bfd644ee1f5a1cfa3e157b0a
2228	Exploration of carbohydrate binding behavior and anti-proliferative activities of Arisaema tortuosum lectin	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Biochemistry, Dr. Y.S.P. Govt. Medical College, Distt. Sirmaur, Nahan H.P, 173001, India	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065387150&doi=10.1186%2fs12867-019-0132-0&partnerID=40&md5=b4fa15e45deb826402f1cde526277f24
2229	Exploring the Role of Consecutive Addition of Nitrogen Atoms on Stability and Reactivity of Hydrogen-Bonded Azine-Water Complexes	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065329177&doi=10.1021%2facosomega.8b03496&partnerID=40&md5=0b200ec2398bfa840d1c63e01f631c28
2230	Evaluation of pasting and dough rheological properties of composite flours made from flour varied in gluten strength	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065974654&doi=10.1007%2fs13197-019-03759-w&partnerID=40&md5=67e8d4a472edf3b3c7e3f29906acaacc
2231	Sikh ethnonationalism and militancy: manifestation and prognosis	Department of Political Science, Guru Nanak Dev University, Amritsar, Punjab, India	1	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049611607&doi=10.1080%2f14631369.2018.1491289&partnerID=40&md5=fb49b41657570d369b1e82e5faa9e49f
2232	Self-focusing of q-Gaussian laser beam in relativistic plasma under the effect of light absorption	Research Scholar, Inder Kumar Gujral Punjab Technical University, Kapurthala, Punjab 144601, India; Department of Applied Science, Lyallpur Khalsa College of Engineering, Jalandhar, Punjab 144001, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Amritsar College of Engineering and Technology, Amritsar, Punjab 143001, India; School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab 147004, India	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061451816&doi=10.1016%2fj.jileo.2018.12.105&partnerID=40&md5=8095a4bdb945234ca2d672b56382541a
2233	Core-insertion of palladium in naphthalenediimides: Opto-electronic properties, structural insights and coupling studies	Supramolecular and Material Chemistry Lab, School of Physical Sciences, Jawaharlal Nehru UniversityDelhi 110067, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	7	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055750817&doi=10.1016%2fj.ica.2018.09.077&partnerID=40&md5=7162aa529be51f904d13f37424e080f9
2234	A comparative study for the selection of an entropy technique to classify bearing faults	Department of Mechanical Engineering, Guru Nanak Dev University, Regional Campus Sathiala, Amritsar, India; Discipline of Mechanical Engineering, Indian Institute of Technology, Indore, India; Department of Mechanical Engineering, Guru Nanak Dev University, Amritsar, Amritsar, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074324552&doi=10.1109%2fi.CECCT.2019.8869267&partnerID=40&md5=525d326e2dc8c8e20d42923b6b8510f3
2235	Forensic Based Cloud Computing Architecture-Exploration and Implementation	Department of Computer Science, Guru Nanak Dev University, Amritsar, 143005, India; Faculty of Engineering and Technology, Guru Nanak Dev University, Amritsar, 143005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072842528&doi=10.1109%2fi.CCCT2.2019.8824813&partnerID=40&md5=c108cb417c7364102c18bfa6ae203680
2236	Scanning electron microscopy for analysing maturity of compost/vermicompost from crop residue spiked with cattle dung, Azolla pinnata and Aspergillus terreus	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056897701&doi=10.1007%2fs11356-018-3673-8&partnerID=40&md5=3e0129d76eff656bc74eb73ede22a3d3

2237	Fault Diagnosis in Wireless Sensor Networks - A Survey	Punjab Technical University, Lovely Professional University, Phagwara, Punjab, India; Khalsa College of Engineering and Technology, Amritsar, Punjab, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062081726&doi=10.1109%2fjccs.2018.00011&partnerID=40&md5=2eb7dc61cd82954772ddc70f1d35ebd1
2238	Substrate induced effects on structural, optical and electrical properties of lead (II)tetrakis (4-cumylphenoxy) phthalocyanine thin films	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091287115&doi=10.1016%2fj.matpr.2019.11.021&partnerID=40&md5=6a19110be4885736f3f295d5fad3321c
2239	Nanoformulations for ocular delivery of drugs - A patent perspective	Department of Pharmaceutics, Khalsa College of Pharmacy, Amritsar, Punjab 143001, India; Department of Pharmaceutics, School of Pharmaceutical Education and Research, Jamia Hamdard, New Delhi, 110062, India; Department of Oral & Maxillofacial Pathology and Microbiology, Sri Guru Ram Das Institute of Dental Sciences and Research, Amritsar, Punjab 143001, India	6	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084498662&doi=10.2174%2f1872211314666200127101149&partnerID=40&md5=25c80cbcad8f1339781499c7cf2a30d1
2240	Nanotechnology: A Successful Approach to Improve Nutraceutical Bioavailability	Department of Food Science and Technology, Chaudhary Devi Lal University, Sirsa, Haryana, India; Department of Food Science and Technology, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081534079&doi=10.1007%2f978-3-030-17061-5_5&partnerID=40&md5=b4bc457dd649513a9226a955ea72ffdf
2241	Enhanced Performance Analysis of 10 Gbit/s-10 GHz OFDM-Based Radio over FSO Transmission System Incorporating ODSB and OSSB Modulation Schemes	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, India; Division of Computational Physics, Institute for Computational Science, Ton Duc Thang University, Ho Chi Minh City, 700000, Viet Nam; Faculty of Electrical and Electronics Engineering, Ton Duc Thang University, Ho Chi Minh City, 700000, Viet Nam	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074705938&doi=10.1515%2fjoc-2019-0236&partnerID=40&md5=81439f762ecb2f62d74cfcf194e91fbe
2242	Cytotoxic effects of gold(i) complexes against colon, cervical and osteo carcinoma cell lines: A mechanistic approach	Lab Technical Support Office (LTSO), King Fahd University of Petroleum and Minerals, Dhahran, 31261, Saudi Arabia; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar Punjab, 143005, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar Punjab, 143005, India; Department of Chemistry, King Fahd University of Petroleum and Minerals, Dhahran, 31261, Saudi Arabia; Department of Chemistry, GC University, Lahore, 54000, Pakistan	9	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072348798&doi=10.1039%2fc9nj02063b&partnerID=40&md5=c0e584816b64872f5b4236b633522217
2243	Erratum: Intellectual detection and validation of automated mammogram breast cancer images by multi-class SVM using deep learning classification (Informatics in Medicine Unlocked (2019) 16, (S2352914818301813), (10.1016/j.imu.2019.01.001))	Guru Nanak Dev University, Amritsar, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072245536&doi=10.1016%2fj.imu.2019.100239&partnerID=40&md5=d0d34e250b910d4004e2462313f07142
2244	DRAODM: Diabetic Retinopathy Analysis Through Optimized Deep Learning with Multi Support Vector Machine for Classification	Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069721953&doi=10.1007%2f978-981-13-9184-2_16&partnerID=40&md5=05c000ca926faaf1afd2d0ad51db7728
2245	Reinforcement learning-based real time search algorithm for routing optimisation in wireless sensor networks using fuzzy link cost estimation	Department of ECE, Guru Nanak Dev University Regional Campus, Sultanpur Lodhi, Jalandhar, Punjab, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066797039&doi=10.1504%2fijcnds.2019.099967&partnerID=40&md5=25eee92dc0f690f8caa941d474c4562e
2246	Need and design of smart and secure energy-efficient IoT-based healthcare framework	Department of Computer Science and Applications, DAV University, Jalandhar, India; Department of Computer Science, GNDU, Amritsar, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066265339&doi=10.1007%2f978-981-13-7399-2_11&partnerID=40&md5=941957d973c266689af4433c90bcc9a6
2247	Evaluation and Classification of Road Accidents Using Machine Learning Techniques	Department of CS, GNDU, Amritsar, Punjab 143005, India; Department of CS, Faculty of Engineering and Tech, GNDU, Amritsar, Punjab 143005, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066118533&doi=10.1007%2f978-981-13-5953-8_17&partnerID=40&md5=e3dfccdbd8ae483c76545720d590fdf
2248	Liquid crystalline microspheres of azobenzene amphiphiles formed by thermally induced pH changes in binary water-hydrolytic ionic liquid media	Department of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University, 744 Motooka, Nishi-ku Fukuoka, 819-0395, Japan; Department of Chemistry, Guru Nanak Dev University, Amritsar-Punjab, 143005, India; Center for Molecular Systems (CMS), Kyushu University, 744 Motooka, Nishi-ku Fukuoka, 819-0395, Japan	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065533412&doi=10.1039%2fc9cc01731c&partnerID=40&md5=a2524bfc9575acd346b3f6f1d7009bff
2249	Metal nanoparticles embedded in AIEE active supramolecular assemblies: Robust, green and reusable nanocatalysts	Department of Chemistry, UGC Sponsored Centre for Advance Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064178782&doi=10.1039%2fc9dt00307j&partnerID=40&md5=70ffce93b4c98ed58a76773d14271f82

2250	Comparison of UV spectrophotometric and HPLC method for estimating canagliflozin in bulk and a tablet dosage form	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, 147 002, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063729594&doi=10.4172%2fpharmaceutical-sciences.1000477&partnerID=40&md5=e1406e8c9fd00a1d107411f1ad2872c1
2251	Object Oriented Dynamic Coupling and Cohesion Metrics: A Review	Department of Computer Science, Guru Nanak Dev University, Amritsar, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063495121&doi=10.1007%2f978-981-13-1217-5_85&partnerID=40&md5=17022ac25fd1450557ac835e6387e62
2252	Performance evaluation of coated carbide tool during face milling of AISI 304 under different cutting environments	Mechanical Engineering Department, Punjabi University, Punjab, Patiala, 147002, India; Department of Mechanical Engineering, Guru Nanak Dev Engineering College, Ludhiana , Punjab, 141006, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Punjab, Amritsar, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063287117&doi=10.1088%2f2053-1591%2fab0696&partnerID=40&md5=1fdc5e9492adc6113d5624bfc4bf70e3
2253	Correction: Ferrocene-appended pharmacophores: An exciting approach for modulating the biological potential of organic scaffolds (Dalton Transactions (2019) DOI: 10.1039/c8dt03440k)	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Chemistry, Baring Union Christian College, Batala, 143505, India; Department of Chemistry, Hindu College, Amritsar, Punjab, 143001, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062169932&doi=10.1039%2fc9dt90027f&partnerID=40&md5=c888c6dbeb6dd2bf720e28d37429c5e8
2254	Investigating developers’ sentiments associated with software cloning practices	Department of Computer Science, Guru Nanak Dev University, Amritsar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058988035&doi=10.1007%2f978-981-13-3140-4_36&partnerID=40&md5=d8d98cae6f3af90eb286c1b3d0e7ecf9
2255	Proteome Analysis of the Gametophytes of a Western Himalayan Fern Diplazium maximum Reveals Their Adaptive Responses to Changes in Their Micro-Environment	Division of Biotechnology, CSIR-Institute of Himalayan Bioresource Technology, Palampur, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077309846&doi=10.3389%2ffpls.2019.01623&partnerID=40&md5=25348fb273c759351c9a85badee19648
2256	Strain dependence of the thermoelectric performance of porous armchair silicene nanoribbons	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University, RC Jalandhar, Ladhewali, Punjab, 144007, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076781148&doi=10.1557%2fmrr.2019.321&partnerID=40&md5=f61eea-b34549759ab0fd4d349d4e7962
2257	Expliciting the {Ciprofloxacin Hydrochloride + (Glycine/ l -Isoleucine)} Interactions in Aqueous Solution over the Temperature range T = 288.15-323.15 K and at Pressure p = 1 × 105 Pa: Volumetric, Acoustic, Calorimetric, and Absorption studies	Department of Chemistry, Guru Nanak Dev University, Amritsar Punjab, 143005, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074386131&doi=10.1021%2facs.iced.9b00295&partnerID=40&md5=aa6bc298261c5e3aa415ca10e7acb41b
2258	Molecular characterization and study of abiotic soil parameters to understand the natural habitat preference of entomopathogenic nematode distolabrellus veechi isolates	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Division of Nematology, ICAR-IARI, New Delhi, 110 012, India	6	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088164232&partnerID=40&md5=5b93c0b24e16077d96ad4e77d183ea02
2259	Corrigendum to “New indices regarding the dominance and diversity of communities, derived from sample variance and standard deviation” [Heliyon 5 (10) (October 2019) e02606](\$2405844019362668)(10.1016/j.heliyon.2019.e02606)	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botany, DAV University, Sarmastpur, Jalandhar, Punjab 144012, India; State Key Laboratory of Subtropical Silviculture, Zhejiang A & F University, Hangzhou, 311300, China	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076851407&doi=10.1016%2fj.heliyon.2019.e03017&partnerID=40&md5=c64a55976094189de55af9bdab8c1fc3
2260	An Efficient Scrambled Estimator of Population Mean of Quantitative Sensitive Variable Using General Linear Transformation of Non-sensitive Auxiliary Variable	Department of Mathematics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074195040&doi=10.1007%2fs40304-018-0146-9&partnerID=40&md5=66a7197eb0b1fffc80b2d7e86cd83a1b
2261	Modelling the Effects of Financial Services Advertising on Financial Product Purchase: An Empirical Validation	Institute of Business Management, GLA University, Mathura, Uttar Pradesh, India; University Business School, Guru Nanak Dev University, Amritsar, Punjab, India; Guru Nanak Dev University, Amritsar, Punjab, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070402442&doi=10.1177%2f0972262919850920&partnerID=40&md5=a1e4de649988e586a76389ea035a8199
2262	‘Metal free’ fluorescent anionic assemblies: Efficient platform for detection of electron deficient nitroaromatics and cationic dyes	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069662637&doi=10.1016%2fj.dyepig.2019.107601&partnerID=40&md5=0a96460c6612a1040535defd005e8c3f
2263	Theoretical Approach towards the Investigation of Linear and Second-Order Nonlinear Optical Behavior of Ferrocene-Diketopyrrolopyrrole Dyads	Department of Chemistry, UGC Centre for Advanced Studies II, Guru Nanak Dev University, AmritsarPunjab 143005, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075756778&doi=10.1002%2fslct.201903837&partnerID=40&md5=77e72260c477073d619d9d8606db1aa
2264	Psychometric properties of multidimensional scale of perceived social support (MSPSS): Indian adaptation	Khalsa College of Education, Ranjit Avenue, Amritsar, India; Lovely Professional University, Phagwara, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075323731&partnerID=40&md5=b8fd2bc43608c7580d29e3638bb98cfd

2265	Tailoring the structural, electrical, optical and wettability properties of ZnSe films by oblique angle thermal evaporation	Sensors and Glass Physics Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Physics, University of Petroleum and Energy Studies, Dehradun, Uttarakhand, 248007, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075246182&doi=10.1088%2f2053-1591%2fab4f35&partnerID=40&md5=975c58305cfad6b6a9170cdde446db10
2266	Azolla pinnata, Aspergillus terreus, and Eisenia fetida for fasterrecycling of nutrients from wheat straw	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074504056&doi=10.1007%2fs11356-019-06472-5&partnerID=40&md5=f5116ab95c8292e7513c90010c0e667d
2267	Investigation of structural and optical properties of pure and zinc doped CuO nanoparticles	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074786813&doi=10.1063%2f1.5130369&partnerID=40&md5=20b3493064ff2625f1f8c982f8c7d5b
2268	CX3CL1 binding protein-2 (CBP2) of Plasmodium falciparum binds nucleic acids	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; National Institute of Malaria Research, New Delhi, India	6	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069921943&doi=10.1016%2fj.iubiomac.2019.07.178&partnerID=40&md5=e338fe8161a8e82f6377f655d4c38bf
2269	Goods and services tax: Issues and challenges in India	University Business School, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Basic and Applied Sciences, Punjabi University, Patiala, Punjab, India	2	2019	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073506313&doi=10.35940%2fjirte.B1135.098251019&partnerID=40&md5=e270de45e1168ffb9e348662f81f7fe8
2270	In Silico Evaluation of Variable pH on the Binding of Epidermal Growth Factor Receptor Ectodomain to its Ligand Through Molecular Dynamics Simulation in Tumors	Department of Biotechnology, Shri Mata Vaishno Devi University (SMVDU), Kakryal, Katra, Jammu and Kashmir 182320, India; Bioinformatics Infrastructure Facility, Department of Biotechnology, Shri Mata Vaishno Devi University (SMVDU), Kakryal, Katra, Jammu and Kashmir 182320, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Cancer Pharmacology Division, Indian Institute of Integrative Medicine, Jammu, Jammu and Kashmir, India	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057330826&doi=10.1007%2fs12539-017-0265-0&partnerID=40&md5=2f665baca10ed8ff5279a8a1bb089db8
2271	Unveiling the tunneling phenomena in graphene-graphene homo-junctions for emerging device applications	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071782379&doi=10.1088%2f1361-648X%2fab3997&partnerID=40&md5=ce28366f0d9b5a38b5f0335a36798e9a
2272	Enhanced Microwave Absorption Properties of Doped M-Type Barium Hexagonal Ferrites in Ka-band Frequencies	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; D.A.V. Institute of Engineering and Technology, Jalandhar, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061990333&doi=10.1007%2fs10948-019-5044-1&partnerID=40&md5=7d2604d3f3cb20da3fe337216a25db23
2273	Three dimensional ion acoustic solitary waves in a magnetized plasma consisting of two temperature nonextensive electrons	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070980507&doi=10.1063%2f1.5120949&partnerID=40&md5=48579a7ca538e7eb3c22144f9aad4e90
2274	Ion acoustic shocks in degenerate plasma with trapping in a quantizing magnetic field	Guru Nanak Dev University, Amritsar, Punjab, 143005, India	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070959221&doi=10.1063%2f1.5120948&partnerID=40&md5=0f4002597d7bce665b73556b3eeb5bd7
2275	Elucidating the role of size of hydroxyl apatite particles toward the development of competent antiosteoporotic bioceramic materials: In vitro and in vivo studies	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Molecular Biology & Biochemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065302653&doi=10.1002%2fjbm.a.36687&partnerID=40&md5=a0230f03e3c42596e9a6ab8a943b9362
2276	Domain-specific and nonspecific outcomes of work-family interface: A study of Indian journalists	University Business School, Guru Nanak Dev University, Amritsar, India; Department of Commerce, Guru Nanak Dev University, Amritsar, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054349716&doi=10.1108%2fEBHRM-10-2017-0053&partnerID=40&md5=10c10a52fb233126e8dfd5b9632fbf87
2277	Thermoluminescence characteristics of gamma induced LiF: Yb3+ nanophosphor	I.K. Gujral Punjab Technical University, Kapurthala, Punjab, India; Beant College of Engineering and Technology, Gurdaspur, Punjab, India; Department of Physics, G.N.D.U., Amritsar, Punjab, India; Centre for Materials Science and Engg., NIT Hamirpur177005 (H.P.), India; Swami Premanand Mahavidyalaya, Mukerian, Punjab, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069771569&doi=10.1063%2f1.5112926&partnerID=40&md5=b19ad7803ead2d4c7b9fdd3b8446eb92

2278	Sensing performance of rGO/phthalocyanine based hybrid at room temperature	Material Science Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; P.G. Department of Physics, S.M.D.R.S.D. College, Pathankot, 145001, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069769210&doi=10.1063%2f1.5112916&partnerID=40&md5=d8fbb9ec185fed74e654f0164703c846
2279	Sensitive and selective hydrogen gas sensor based on Sn doped NiO nanoparticles	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069764453&doi=10.1063%2f1.5112973&partnerID=40&md5=5e3478353d8704bb2563931cb489099c
2280	Thermal, optical and Raman spectroscopy studies of lithium tellurite glasses containing molybdenum and tungsten ions	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069763156&doi=10.1063%2f1.5113092&partnerID=40&md5=fa6310b8b54effe0debd12d37a36b8c3
2281	Molecular approaches in enhancing antioxidant defense in plants	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Botany, DAV University, Jalandhar, Punjab, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India	7	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85102154030&doi=10.1002%2f9781119468677.ch8&partnerID=40&md5=f12c9f6649a4c65c8db3c139382726f7
2282	S-nitrosogluthathione (GSNO) and plant stress responses	Department of Zoology, Guru Nank Dev University, Amritsar, Punjab, India; Department of Botanical and Environmental Sciences, Guru Nank Dev University, Amritsar, Punjab, India; Institute of Food Biotechnology and Genomics, National Academy of Sciences of Ukraine, Kyiv, Ukraine	8	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089921735&doi=10.1002%2f9781119468677.ch26&partnerID=40&md5=9f6bb6e46e9fe26453ed8746b87b29aa
2283	Development and description of conceptual model related to employee engagement in organizations	Department of Basic and Applied Sciences, Punjabi University, Patiala, Punjab, India; University Business School, Guru Nanak Dev University, Amritsar, Punjab, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073476252&doi=10.35940%2fjjeat.E1075.0785S319&partnerID=40&md5=edba8ff575190db7ac129e78a481d4d7
2284	Formulation and characterization of hpmc and hpmcas based solid dispersions of fenofibrate: A comparative study	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070768204&doi=10.22159%2fijap.2019v11i4.32592&partnerID=40&md5=90112aa89a75d2a376c90bfb415e7965
2285	Simulating longitudinal vibrations of coupled oscillator using the fourth-order Runge-Kutta method by programming spreadsheet	PG Department of Physics, Khalsa College, Amritsar, 143005, India; School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069040090&doi=10.1088%2f1361-6404%2fab1666&partnerID=40&md5=f82857613c1ff46be55e59681a9cc293
2286	Fibrous raw material of bamboo origin with improved fibrillation and spinnability	Department of Chemistry, Guru Nanak Dev University, Amritsar, India; Department of Textile Chemistry, Faculty of Technology & Engineering, The M S University of Baroda, Vadodara, India; Department of Chemistry, Sri Guru Granth Sahib World University, Fatehgarh Sahib, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059090328&doi=10.1080%2f00405000.2018.1529214&partnerID=40&md5=771035b89d161421b70ee4d68df374
2287	Biocontrol potential of <i>Distolabrellus veechi</i> isolate KPI (Nemata: Rhabditida) against cotton cutworm, <i>Spodoptera litura</i> (Lepidoptera: Noctuidae)	Department of Zoology, DAV University Jalandhar, India; Department of Botany, DAV University Jalandhar, India; Department of Zoology, Guru Nanak Dev University-AmritsarPunjab, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India	6	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073471989&partnerID=40&md5=a6b7e07356c162e94d1acfacf4643cc9
2288	Factors of stress amongst students of professional institutes	Guru Nanak Dev University Regional Campus, Gurdaspur, Punjab 143 521, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070932371&doi=10.17010%2fijiom%2f2019%2fv12i6%2f144934&partnerID=40&md5=ac45c4502ac0d2b109bddcda39112376
2289	Effect of Composition of Board and Promoter Group Retained Ownership on Underpricing of Indian IPO firms: An Empirical Study	University School of Financial Studies, Guru Nanak Dev University, Amritsar, Punjab, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068109588&doi=10.1177%2f0974686219836539&partnerID=40&md5=60795c2b881df618dff5631e7b0c3f0
2290	Exploring the bank selection criteria in India: scale development and validation	Department of Commerce, Guru Nanak Dev University, Amritsar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063598090&doi=10.1108%2fJBM-09-2017-0199&partnerID=40&md5=41984f86cdcd00f52a8e4cb93f6d295b
2291	Anatomization of Detection and Performance Measures Techniques for Flooding Attacks using Routing Protocols in MANETs	Guru Nanak Dev University, Punjab, India; Lovely Professional University, Punjab, India	6	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070618592&doi=10.1109%2fICACTM.2019.8776694&partnerID=40&md5=263b692c1dbd864f7804d1b49293e951
2292	Development and validation of a stability indicating UV-spectrophotometric assay method for the determination of naratriptan hydrochloride	School of Pharmaceutical Sciences, Lovely Professional University, Phagwara, Punjab, India; Department of Pharmaceutics, Khalsa College of Pharmacy, Amritsar, Punjab, India; College of Pharmacy, Prince Sattam bin Abdul Aziz University, Kharij, Saudi Arabia; IKGT university, Jalandhar, Punjab, India	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065882060&partnerID=40&md5=063e3c957481694395c4ff14590201a3

2293	Comprehensive investigation of structural, dielectric and local piezoelectric properties of KNN ceramics	Department of Physics, ACBS, Eternal University, Baru Sahib, Himachal Pradesh, 173101, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Scientific-Practical Materials Research Centre of NAS of Belarus, Minsk Belarus, 220072, India; National Research University of Electronic Technology mIET, Zelenograd Moscow, 124498, Russian Federation; TEMA-NRD, Mechanical Engineering Department and Aveiro, Institute of Nanotechnology (AIN), University of Aveiro, Aveiro, 3810-193, Portugal	7	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065880329&doi=10.1142%2fS2010135X19500164&partnerID=40&md5=2b418daf5476abcefb388034ed59b11
2294	Secure techniques for the UAV networks: A review	Masters of Technology, Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064416804&doi=10.1109%2fGUCON.2018.8675074&partnerID=40&md5=37311a29ce1a4570e0621738907c09aa
2295	Evaluating groundwater for its probable mutagenicity and genotoxicity using in vitro bioanalytical tools	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85033685881&doi=10.1007%2fs12403-017-0263-9&partnerID=40&md5=b493f266016f734c7b246c92ace2f2b5
2296	Negative effect of non-host protease inhibitors partially purified from <i>Cassia glauca</i> seeds on developmental physiology of <i>Spodoptera litura</i>	Department of Zoology (DST-FIST sponsored), Insect Physiology Laboratory, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066961477&doi=10.1007%2fs42690-019-00001-0&partnerID=40&md5=fddfd44398edda35b1d8bfa05b410a8b
2297	Distribution of angiotensin converting enzyme gene (insertion/deletion) polymorphism in Indian populations	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Anthropology, Panjab University, Chandigarh, 160014, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058652177&doi=10.1016%2fj.genrep.2018.12.005&partnerID=40&md5=e3c8f324928542cb9b71c34e0d2321ca
2298	Investigation of γ ray shielding, structural and dissolution rate studies of alkali based bismuth borate glass systems with MoO ₃ added	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057300854&doi=10.1515%2fract-2018-2985&partnerID=40&md5=0ea6628c821d896d09dc8a4945ad1836
2299	Communicating with Voters on YouTube: Content Analysis of the Relationship Between Advertisement Message Characteristics and Viewers' Responses	Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85100980922&doi=10.1177%2f0258042X18822901&partnerID=40&md5=76619ed72766ca8a18b477df80352fee
2300	Design and Performance Analysis of 2x2 electro-optic based MZI switch using Ti:LiNbO ₃ as a waveguide at 1.46 μ m	Dept of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074330263&doi=10.1109%2fICECT.2019.8869376&partnerID=40&md5=940799fc9934406dbc4323b086d107d2
2301	Plasmodium falciparum protein 'pfj23' hosts distinct binding sites for major virulence factor 'pfemp1' and maurer's cleft marker 'pfsbp1'	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; National Institute of Malaria Research, Sector 8 Dwarka, New Delhi, 110077, India; Institute of Nanoscience and Technology, Mohali, Punjab, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India	10	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060035636&doi=10.1093%2ffemspd%2ffty090&partnerID=40&md5=26f7aa563fc6d951e7a81ba261978cba
2302	EIT-based giant self-kerr-nonlinear behavior of multilevel X-scheme	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091279344&doi=10.1016%2fj.matpr.2020.02.103&partnerID=40&md5=6c7a6bc7f51fdf7e49af42113446e9bc
2303	Exploring the role of dimethylarginine dimethylaminohydrolasemediated reduction in tissue asymmetrical dimethylarginine levels in cardio-protective mechanism of ischaemic postconditioning in rats	Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, India; Department of Pharmacology, Khalsa College of Pharmacy, Amritsar, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079807416&doi=10.22038%2fijbms.2019.14067&partnerID=40&md5=d1061fdf5c774357ed3ae0486d196b7d
2304	Socio-economic variables and quality of work life: Public transportation bus drivers	Guru Gobind Singh Khalsa College, Sarhali Tarn Taran, Punjab, India; University Business School, Guru Nanak Dev University, Amritsar, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079742518&partnerID=40&md5=b0ec9fd11d40d843b638205cabb18d6f
2305	Output, employment and productivity: Contribution of different technology intensive manufacturing industries of India	Punjab School of Economics, Guru Nanak Dev University, Amritsar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078520370&doi=10.1504%2fJJEPEE.2019.104639&partnerID=40&md5=88912f833425b02683d5f4bdfb3fc52f
2306	Formulation of sustained-release microspheres of cefixime with enhanced oral bioavailability and antibacterial potential	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076876822&doi=10.4155%2ftde-2019-0057&partnerID=40&md5=7ac5c5046c20e4ae246bdf78d877e733
2307	Effect of pruning intensity and time on yield and quality of guava cv. L-49	Department of Horticulture, Khalsa College, Amritsar, Punjab 143 001, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075681556&doi=10.31830%2f2348-7542.2019.075&partnerID=40&md5=6bd66c3e3b1971963620e699ae6012ca

2308	An Efficient Architectural Framework for Non-obtrusive and Instantaneous Real-Time Identification of Clones During the Software Development Process in IDE	Department of Computer Science, Guru Nanak Dev University, Amritsar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075245481&doi=10.1007%2f978-981-15-0111-1_35&partnerID=40&md5=65c0b2039635bc0f46b081777862c3f7
2309	UV light promoted 'Metal'/'Additive'-free oxidation of alcohols: Investigating the role of alcohols as electron donors	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar Punjab, 143005, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075015685&doi=10.1039%2fc9ra06490g&partnerID=40&md5=69a66df3ec5c6a58f70e5b395cf2974c
2310	Performance Analysis of 20 Gbit/s-40 GHz MDM-Ro-FSO Link Incorporating DPSK Modulation Scheme	Guru Nanak Dev University, Regional Campus, Gurdaspur, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074687592&doi=10.1515%2fjoc-2019-0237&partnerID=40&md5=2d53da636e08d51a28bfc24ad8a0f778
2311	Polymeric precipitation inhibitor as an effective trigger to convert supersaturated into supersaturable state in vivo	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, Punjab, 147002, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074497648&doi=10.4155%2ftde-2019-0053&partnerID=40&md5=82aea2f05e563d51747d63dc2383ce38
2312	Differentiation strategy in private banking services in India: Identifying role of tangible factors & traits affecting service levels	Guru Nanak Dev University College, Jalandhar, Punjab, India; Center of Continuing Education, Dr. B R Ambedkar National Institute of Technology, Jalandhar, Punjab, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073408626&partnerID=40&md5=5f0402e7f37751b1851c74eb7863205c
2313	Digital Payment Adoption in India: Insights from Twitter Analytics	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India; School of Management, Emerging Market Research Center (EMaRC), Swansea University, Swansea, United Kingdom; Department of Computer Science, Guru Nanak Dev University, Amritsar, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	6	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072887447&doi=10.1007%2f978-3-030-29374-1_35&partnerID=40&md5=e20a410c89c38d56c111a9e229111352
2314	Mechanism of atom economical conversion of alcohols and amines to amides using Fe(ii) pincer catalyst. An outer-sphere metal-ligand pathway or an inner-sphere elimination pathway?	Department of Chemistry, UGC Sponsored Centre of Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067579857&doi=10.1039%2fc9ra03309b&partnerID=40&md5=e3ec739e8e33737fbef79d2a01c7c06a
2315	Optimization of process parameters for preparation of rice extrudates from short and long Indica rice cultivars milled to varying degree of milling	Department of Food Technology, Ch. Devi Lal State Institute of Engineering and Technology, Panniwala Mota, Sirsa, Haryana, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Food Science and Technology, Punjab Agricultural University, Ludhiana, Punjab, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063314779&doi=10.1007%2fs13197-019-03724-7&partnerID=40&md5=efcc483fff4f3d925c181448ac52cde3
2316	Correction: Benzoflavone derivatives as potent antihyperuricemic agents(MedChemCommun (2019) DOI: 10.1039/c8md00512e)	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; TERI-Deakin Nanobiotechnology Centre, Energy and Resources Institute, TERI Gram, Gual Pahari, Gurugram, Haryana 122001, India	9	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-8506495943&doi=10.1039%2fc9MD90002K&partnerID=40&md5=255d5cf203c9d571e856e10a5668ca73
2317	Traumatic myiasis of the scalp in a 3-year-old patient- a case of neglected health care	Department of Zoology, Khalsa College, Amritsar, Punjab 143001-, India; Department of Zoology and Environment Sciences, Punjabi University, Patiala, Punjab 147002, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060106489&partnerID=40&md5=9e783601e77e5f6b2d1edc0b1951aea8
2318	Hybrid metaheuristic based scheduling with job duplication for cloud data centers	Guru Nanak Dev University, Amritsar, Punjab, India	1	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053228672&doi=10.1007%2f978-981-13-0761-4_93&partnerID=40&md5=c52ad18726c3f60f937ef2c542f9332f
2319	A comparative analysis of static and dynamic java bytecode watermarking algorithms	Faculty of Science and Technology, ICFAI University, Baddi, HP, India; Department of Computer Science and Technology, Guru Nanak Dev University, Amritsar, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049120568&doi=10.1007%2f978-981-10-8848-3_31&partnerID=40&md5=f72b605a2eec298f01358255c2b0c6eb
2320	Software architecture evaluation in Agile environment	Department of Computer Science and Engineering, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049084913&doi=10.1007%2f978-981-10-8848-3_32&partnerID=40&md5=aa86ac8a1cbb487d14de798fe267e92a
2321	Electromagnetic interference (EMI) shielding and microwave dielectric properties of (BaxMg1-x)(Ti0.95Sn0.05)O3 (x = 0.025 and 0.05) solid solutions in Ku-band	Guru Nanak Dev University, Department of Electronics Technology, Amritsar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087747860&doi=10.1109%2fIMMaRC45935.2019.9118729&partnerID=40&md5=0ce6f28a416e3b8454d45d1ba2ccdd73
2322	Self-Focusing of Quadruple Gaussian Laser Beam in Relativistic Plasma using Moment Theory Approach	Guru Nanak Dev University, Department of Physics, Amritsar, Punjab, 143005, India; Regional Institute of Education, Bhubaneswar, 751022, India; Indian Institute of Technology Guwahati, Department of Physics, Guwahati, Assam 781039, India	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082176371&doi=10.1109%2fWRAP47485.2019.9013664&partnerID=40&md5=0a50dec90cc97145db1e8fac080312db

2323	Simulation of Terahertz Propagation by TE Mode in Metal Dielectric Metal Waveguide	Guru Nanak Dev University, Department of Physics, Amritsar, Punjab, 143005, India; S.L.Bawa D.A.V College, Batala, Punjab, 143505, India; Government Middle School, Raunt, Jalandhar, Punjab, 144701, India; Regional Institute of Education, Bhubaneswar, Orissa, 751022, India; Indian institute of Technology Guwahati, Department of Physics, Assam, 781039, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082174277&doi=10.1109%2fWRAP47485.2019.9013658&partnerID=40&md5=ac8a282dd1cfde60da944ef8e65acaed
2324	Assessment of tumor inducing potential of lead using crown gall tumor disc bioassay	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069711106&doi=10.1007%2fs13237-019-00283-2&partnerID=40&md5=f4e15b091019a65ddc03d6a82d3d2ef7
2325	Probing non-covalent interactions of phosphine and arsine derivatives: an energy decomposition analysis using localized molecular orbitals	Department of Chemistry, UGC Sponsored Centre of Advanced, z Studies-I, Guru Nanak Dev University, Amritsar, 143005, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065552504&doi=10.1007%2fs11224-019-01328-7&partnerID=40&md5=2fed130fa908d9cf58d13f8a8bf02e42
2326	A weakest link-driven global QoS adjustment approach for optimizing the execution of a composite web service	Department of Computer Science, Guru Nanak Dev University, Amritsar, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062688513&doi=10.1007%2fs10115-019-01344-3&partnerID=40&md5=1782fe5bd203c9442f0d18be79fea10f
2327	Effect of Diamagnetic Ion Substitution on Structural and Magnetic Properties of Nd3+ Modified Solid Solutions	Department of Physics, Guru Jambheshwar University of Science & Technology, Hisar, India; University Institute of Engineering and Technology, Maharshi Dayanand University, Rohtak, India; Multifunctional Material Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, India; Department of Physics, Maharshi Dayanand University, Rohtak, India	6	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077200202&doi=10.1080%2f10584587.2019.1700073&partnerID=40&md5=98c16324468e434cfc0c4fc72b91798f
2328	Neck circumference: A reliable indicator of the percent body fat in young male and female adults	Department of Physiotherapy, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Physiotherapy, Faculty of Sports Medicine and Physiotherapy, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081188543&partnerID=40&md5=2fd9df232093776f163686bf737aa2c
2329	Effect of Fe substitution on the structural, electrical and dielectric properties of La0.70Ca0.30MnO3 cathode for SOFCs	I.K.Gujral Punjab Technical University, Kapurthala, Punjab, India; MFM Lab, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Applied Sciences, B.C.E.T, Gurdaspur, Punjab, India	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075176093&doi=10.35940%2fijitee.A4114.119119&partnerID=40&md5=beef87da7d074d01d417b8b0d06e6e58
2330	Security concerns in cloud computing: Analysis and solution	Guru Nanak Dev University, Amritsar, India; Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075175186&doi=10.35940%2fijitee.A7110.119119&partnerID=40&md5=df92ac5087653d242c6a3c68d7cf6a65
2331	Study of existing cloud data storage techniques with respect to optimized duplication: Deduplication	I. K. Gujral Punjab Technical University, Kapurthala, Punjab, India; Khalsa College of Engineering & Technology, Amritsar, Punjab, India	2	2019	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85080124722&partnerID=40&md5=14f756493f935ca311ced9687db51e4f
2332	Impact of time delay in a forest biomass model in the presence of export and industry	I.K. Gujral Technical University, Kapurthala, Punjab, India; P.G. Department of Mathematics, Khalsa College AmritsarPunjab, India	1	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081660185&partnerID=40&md5=346f4e94380648bbdb4cc17be1395208
2333	Impact of virus in a resource biomass model with industry	I.K.Gujral Technical University, Kapurthala, Punjab, India; P.G.Department of Mathematics, Khalsa College, Amritsar, Punjab, India	1	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081555978&partnerID=40&md5=a64f0b15ab628db4962fc206b37ace2f
2334	Impact of industry and export on the biomass resources	I.K. Gujral Technical University, Kapurthala, Punjab, India; P.G. Department of Mathematics, Khalsa College, Amritsar, Punjab, India	1	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081546983&partnerID=40&md5=e52ef4dbb6a21d3820a20ecc0f6965dd
2335	Development and validation of RP-HPLC method for the determination of stigmasterol in the botanical extract of Ficus deltoidea	Department of Pharmacognosy and Phytochemistry, SBS College of Pharmacy, Tarn Taran, India; Department of Pharmaceutical Sciences, IKG Punjab Technical University, Kapurthala, India; Department of Pharmacognosy, Khalsa College of Pharmacy, Amritsar, India; Department of Pharmaceutical Analysis, Khalsa College of Pharmacy, Amritsar, India; PG Department of Chemistry, Khalsa College, Amritsar, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057523864&doi=10.1080%2f14786419.2018.1503661&partnerID=40&md5=bc4f0aa1d7bb7aa89ea38cb6edd392eb
2336	Agronomic zinc biofortification of wheat	Krishi Vigyan Kendra Gurdaspur, Punjab Agricultural University Ludhiana, Post Graduate Department of Agriculture, Khalsa College, Amritsar, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85094199622&doi=10.12871%2f00021857201941&partnerID=40&md5=1dfbf693b73166a1a2f7e6110410e778

2337	Mobile Network Architecture for Emergency Rescue Services in the Smart City	GNDU Regional Campus, Department of Electronics and Communication Engineering, Jalandhar, India; GNDU Regional Campus, Department of Engineering and Technology, Jalandhar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084444992&doi=10.1109%2flicccs48478.2019.8974499&partnerID=40&md5=1174f99115b7e094c37ad675da157502
2338	Impact of packaging materials and different chemicals on storage and shelf life of pear cv. Punjab beauty	Department of Horticulture (Agriculture) Khalsa College, Guru Nanak Dev University, Amritsar, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081189774&partnerID=40&md5=424d0692fbde50c9717826a79c34a83d
2339	Estimation of back strength, hip circumference and buttock knee length and its correlation with explosive power in indian state and national level gymnasts	Department of Physiotherapy, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Physiotherapy & Dean, Faculty of Sports Medicine and Physiotherapy, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85080105627&partnerID=40&md5=df40b8fd553acfbcd207dd2d5f8a55a8b
2340	Post-independence institutional efforts in planned housing development in Amritsar (Punjab, India)	Guru Ramdas School of Planning, Guru Nanak Dev University, Amritsar, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075282721&doi=10.35940%2fjijeat.A9976.109119&partnerID=40&md5=315a12fdbf9a979d38fe418f915675bf
2341	Perinatal hypoxia diagnostic system by using scalable machine learning algorithms	CT Institute of Engineering Management and Technology, Jalandhar, India; Khalsa College of Engineering and Technology, Amritsar, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073739466&doi=10.35940%2fjiitee.L2905.1081219&partnerID=40&md5=3f196a4a6578b52aec51dfb97703417
2342	Plasmodium helical interspersed subtelomeric family—an enigmatic piece of the Plasmodium biology puzzle	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071156525&doi=10.1007%2fs00436-019-06420-9&partnerID=40&md5=e3589ac621268da0cd49b009a0c71c22
2343	Role of quantum phase transition in spontaneous fission	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Nuclear and Atomic Physics, Tata Institute of Fundamental Research, Mumbai, 400005, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070291418&doi=10.1016%2fj.nuclphysa.2019.07.013&partnerID=40&md5=e0d7404043efbf5dc6d8841d24f17903
2344	An optimal topology selection for power recharging model in wireless sensor networks)	I.K Gujral Punjab Technical University, Computer Science and Engineering144603, India; Khalsa College of Engineering and Technology, Amritsar, Punjab, India; Panjab University SSG Regional Centre, Hoshiarpur, Punjab, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081189679&partnerID=40&md5=fa7d34d9b2c6866c408d246dc918a0f9
2345	DDOS attack detection and handling mechanism in WSN	Department of Computer Science and Engineering at SoET, BGSSB University Rajouri (J&K), India; Department of Computer Science and Engineering, Guru Nanak Dev University, R/C Gurdaspur, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073566315&doi=10.35940%2fjiitee.C5644.098319&partnerID=40&md5=a1bf4e916cb08083df3a4f698b73a0b6
2346	Structural, dielectric and electrical properties of fe doped la0.7ba0.3mno3solid solutions for cathode materials	I.K.Gujral Punjab Technical University, Kapurthala, Punjab, India; MFM Lab, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India; Beant College of Engineering & Technology, Gurdaspur, Punjab, India	6	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073533337&doi=10.35940%2fjiitee.C6011.098319&partnerID=40&md5=09c2fcd05279b5bfa1f42ceadf260492
2347	A survey of genetic algorithm based load balancing techniques for task graph scheduling problem in distributed environment	Deptt. Computer Science & Engineering, Guru Nanak Dev University, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073455792&partnerID=40&md5=45278ca9ad0d1dccd67854c54d2d7306f
2348	Detecting intrusion with high accuracy: Using hybrid K-Multi layer perceptron	Department of Computer Science and Engineering, SoET, BGSSB University Rajouri (J&K), India; Department of Computer Science and Engineering, Guru Nanak Dev University, R/C Gurdaspur, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073436012&doi=10.35940%2fjiitee.C5645.098319&partnerID=40&md5=3c973a05002216f143df9eb9fad79797
2349	Sensors based automotive vehicle for the detection of fuel level	Lovely Professional UniversityPunjab, India; Guru Nanak Dev UniversityPunjab, India; Punjab Technical UniversityPunjab, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073356640&doi=10.35940%2fjiitee.I7624.0981119&partnerID=40&md5=9cee4b3aba053bc75abbd2abdcfd1454
2350	Protective effect of high levels of TGF-β1 cytokine and its corresponding allele at C-509T locus in Punjabi ESRD population	Department of Biotechnology, DAV College, Amritsar, Punjab, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Nephrology, Kidney Hospital, Jalandhar, Punjab, India; Drug Discovery Research Center (DDRC), Translational Health Science and Technology Institute (THSTI), NCR Biotech Science Cluster, 3rd Milestone, Faridabad – Gurgaon Expressway, PO box #04, Faridabad, Haryana, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066624693&doi=10.1016%2fj.mgene.2019.100587&partnerID=40&md5=3a98b47ce5de98c8522cd28998d71a7e

2351	Microwave filter characteristics of ferrite and polyaniline composites from 8.2 to 12.4 GHz	Department of ECE, Lovely Professional University, Phagwara, Punjab, India; School of Materials Science and Engineering, University of Science and Technology, Beijing, 100083, China; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Physics, (LOCeM), Federal University of Ceará (UFC), Pici Campus, Fortaleza, Ceara, Brazil; Department of Physics, University of Memphis, Memphis, TN, United States; Department of Physics, Electronics and Space Science, University School of Sciences, Gujarat University, Ahmedabad, Gujarat, India; Department of ECE, Thapar University, Patiala, Punjab, India; Scientific-Practical Materials Research Centre NAS of Belarus, 19 P Brovki Street, Minsk, 220072, Belarus; National University of Science and Technology MISiS, Leninsky Prospekt, 4, Moscow, 119049, Russian Federation; South Ural State University, Lenin Prospekt, 76, Chelyabinsk, 454080, Russian Federation	10	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069485130&doi=10.1007%2fs10854-019-01864-2&partnerID=40&md5=8234ff70e0d19ef0ffa593bd19e081e
2352	Effect of pH on the structural, optical and gas sensing properties of nickel oxide	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072091466&doi=10.1063%2f1.5122559&partnerID=40&md5=9b6cfd033ecfd47b9afe7d1f995ecf3
2353	Effect of iron ion implantation dose on optical and structural properties of CdS nanowires	Department of Physics, Guru Nanak Dev University, Amritsar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072086766&doi=10.1063%2f1.5122358&partnerID=40&md5=23b429c50687584354ed6f3648d11b46
2354	Propagation characteristics of non-Gaussian laser beam in a plasma with density ramp using Moment Theory Approach	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Regional Institute of Education, Bhubaneswar, 751022, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072076702&doi=10.1063%2f1.5122465&partnerID=40&md5=d3a09105d5f943e78334e84cc30d988f
2355	Influence of some polymers on micellization behavior of sodium caprylate and cetyl pyridinium chloride	Department of Chemistry, Guru Nanak Dev University, Amritsar (Pb.), 143 005, India	1	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072070730&doi=10.1063%2f1.5122642&partnerID=40&md5=b70d652f7e5589c001a0864ba6d7eaf8
2356	Effect of different fuel combination on structure and properties of M type hexaferrite BaZn0.2Zr0.2Fe11.6O19	Department of Chemistry, UGC Center for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Analytical and Environmental Science Division and CIF, CSIR-Central Salt and Marine Chemicals Research Institute, Gijubhai Badheka Marg, Bhavnagar, Gujarat, 364002, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	6	2019	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072068294&doi=10.1063%2f1.51223590&partnerID=40&md5=5d89824cfaecbba76c7ba926afd59864
2357	Sonication assisted graphene exfoliation for preparation of conductive inks	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072065729&doi=10.1063%2f1.5122588&partnerID=40&md5=cb2672e7403919c1c0d2b504380961e4
2358	Assessment of the gamma-radiation and neutron shielding ability of Sb2O3-WO3-PbO-Na2O glass system	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, Guru Nanak Dev University, College Verka, Amritsar, Punjab, 143501, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072061426&doi=10.1063%2f1.5122502&partnerID=40&md5=5850068d1d90c7126b63a35ccbe59a61
2359	Evaluation of bone regeneration ability of 42SiO2-37CaO-10P2O5-6MnO-5ZnO bioceramic composition	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072061162&doi=10.1063%2f1.5122401&partnerID=40&md5=7d795ce4c21383041f2ff428ee1ab116
2360	An outlier in the north success of the Congress in Punjab	Department of Political Science, Guru Nanak Dev University, Amritsar, India; Department of Political Science, Panjab University, Chandigarh, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070726005&partnerID=40&md5=094469bdf7dc3231fb772591ba5d517
2361	Positron-acoustic nonlinear waves in multicomponent plasmas	Guru Nanak Dev University, Amritsar, Punjab, 143005, India	5	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071039846&doi=10.1063%2f1.5120951&partnerID=40&md5=dc55482897fb36d026dde9dbb4dbf9ce
2362	Nonlinear excitations in a relativistic plasma with non-Maxwellian electrons	Guru Nanak Dev University, Amritsar, Punjab, 143005, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071027618&doi=10.1063%2f1.5120950&partnerID=40&md5=b2cb09b34334633d9be58e277eed3518
2363	Learning towards failure prediction of high performance computing clusters by employing LSTM	Department of Computer Engineering & Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072069560&doi=10.35940%2fijeat.F7885.088619&partnerID=40&md5=f5a3d29fa0d20bb3f9dc944e71445b7

2364	Design and analysis of multi-heuristic based solution for task graph scheduling problem	Department of Computer Science, Guru Nanak Dev University, Amritsar, India; Deptt. of CSE, UIET, Panjab University, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072067012&doi=10.35940%2fjjeat.F8680.088619&partnerID=40&md5=b4171e891f1947c917690167b51af981
2365	Corrigendum: Effect of structural and thermal disorder on the optical band gap energy of Cr2O3 nanoparticles (Materials Research Express (2019) 6 (085039) DOI: 10.1088/2053-1591/ab195c)	Centre for Material Science and Engineering, National Institute of Technology, Hamirpur, Himachal Pradesh, India; Department of Physics, National Institute of Technology, Hamirpur, Himachal Pradesh, India; Department of Physics, Guru Nanak Dev University, Punjab, India	5	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070591356&doi=10.1088%2f2053-1591%2fab308a&partnerID=40&md5=72b63b0935c03d3069ef1b6422ff1982
2366	Flexible and highly sensitive Cl2 sensor based on solution processed phthalocyanine nanowires	Department of Applied Physics, Giani Zail Singh Campus, College of Engineering and Technology, Bathinda, 151001, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143001, India; Post Graduate Department of Physics, Khalsa College, Amritsar, 143001, India	7	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069777465&doi=10.1063%2f1.5113150&partnerID=40&md5=0b4a2e0627c8814bfc3a99de254434f6
2367	Growth of few layered molybdenum disulphide	Material Science Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; SIET, Ramtirath Road, Amritsar, 143107, India; Thin Film Devices Section, Technical Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069771833&doi=10.1063%2f1.5113455&partnerID=40&md5=30f94e83cf5a3798f4667dbdfbc05109
2368	Gamma-ray and neutron shielding behaviour of CaO-K2O-P2O5 glass system modified with Bi2O3	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, Faculty of Science, Ataturk University, Erzurum, 25240, Turkey; Department of Physics, Guru Nanak Dev University, College Verka, Amritsar, Punjab, 143501, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069769605&doi=10.1063%2f1.5113090&partnerID=40&md5=9b5347140d700d7b2239568ab0e49c51
2369	Edifying role of corporate reputation in new issue market: Indian evidence	USFS, Guru Nanak Dev University, Amritsar, India; Department of Commerce and Business Management, Guru Nanak Dev University, Amritsar, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067054517&doi=10.1108%2fAPJBA-06-2018-0098&partnerID=40&md5=439ef9cf98ce0ef56c61123eeeb129c
2370	A study of farthest points and uniquely remotal sets	Department of Mathematics, Amardeep Singh Shergill Memorial College, Mukandpur, Punjab 144507, India; Department of Mathematics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075123785&doi=10.1080%2f09720502.2019.1661602&partnerID=40&md5=90318728e33d7cae3dd995bfd67f9c74
2371	Does Investment in R&D Affect Firm Reputation: Indian Experience	University School of Financial Studies, Guru Nanak Dev University, Punjab, Amritsar, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85122376171&doi=10.1177%2f2393957519841513&partnerID=40&md5=f7f3bdad1fe7eef7f8e2ad85a736cffb
2372	Factors affecting mortality prototype in murrah buffaloes: A review	Department of Animal Husbandry, Government of Madhya PradeshMadhya Pradesh, India; Department of Livestock Farm Complex, Khalsa College of Veterinary and Animal Science, Amritsar, India; Guru Angad Dev Veterinary and Animal Sciences UniversityPunjab, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073434994&partnerID=40&md5=1421acdcc47fc52617f0baf08223d2de
2373	Autonomic fog computing: Towards sustainable and reliable integration of cloud & internet of things	Department of Computer Science & Engineering, Khalsa College of Engineering & Technology, India; Department of Computer Science & Engineering of Guru Nanak Dev University, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073332683&doi=10.35940%2fjiitee.I1157.0789519&partnerID=40&md5=a6218f1745f732574206d99076b5d8d3
2374	On Development of typological classification and its relationship to microdifferentiation in ethnic India By KC Malhotra and TS Vasulu	Guru Nanak Dev University, Amritsar, India	1	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068740236&doi=10.1007%2fs12038-019-9883-5&partnerID=40&md5=d972ed5a80cf4204d04dac7ee3d9b183
2375	Corrigendum to: Estimation of the Mean of a Sensitive Variable in the Presence of Auxiliary Information (Communications in Statistics - Theory and Methods, (2012), 41, 13-14, (2394-2404), 10.1080/03610926.2011.641654)	Department of Mathematics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054672728&doi=10.1080%2f03610926.2018.1475570&partnerID=40&md5=6ac497d56d31485cb32774e9a9d8f231
2376	Do people virtually support their favorite cricket team? Insights from 2018 Asia Cup	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071649601&doi=10.1145%2f3339311.3339351&partnerID=40&md5=f59f31073e647c1cc4a939e4604748f2
2377	Studies on intercropping of maize (zea mays l.) with pea (pisum sativum l.) genotype	Khalsa College, Amritsar, 143 002, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070098336&partnerID=40&md5=a8583bfd42bbb528b00537c220a87fcc

2378	Re-powering technique to compare its suitability with on-demand distance vector routing protocols	Punjab Technical University, Kapurthala, Punjab, India; Panjab University Swami Sarvanand Giri Regional, Centre HoshiarpurPunjab, India; Khalsa College of Engineering and Technology, Amritsar, Punjab, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069998425&partnerID=40&md5=6d1389680d4123bd3adc54f9cb14aba7
2379	Use of energy replenishment model to find optimum radio propagation model in wireless sensor networks	I. K. Gujral Punjab Technical University, Kapurthala, Punjab, India; Khalsa College of Engineering and Technology, Amritsar, Punjab, India; Panjab University SSG Regional Centre, Hoshiarpur, Punjab, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069991803&partnerID=40&md5=791523d04b2824b85a7c667bcd1b91c2
2380	Traditional Indian sports – A case-control study on Kho Kho players investigating genomic instability and oxidative stress as a function of metabolic genotypes	Department of Human Genetics, Guru Nanak Dev University, Amritsar, 143 005, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067409634&doi=10.1016%2fj.heliyon.2019.e01928&partnerID=40&md5=560e812248064d2d8e7c21da05303f10
2381	Prospective of nuclear magnetic moment measurements by photofission reactions at ELI-NP	Extreme Light Infrastructure–Nuclear Physics, IFIN-HH, Magurele, Bucharest, Romania; Department of Physics, G.N.D. University, Amritsar, 143005, India; CSNSM, IN2P3-CNRS, Université Paris-Sud, Orsay, 91405, France	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065803151&doi=10.1007%2fs10751-019-1590-y&partnerID=40&md5=87c5c31a0a5cd418a72f6652845e98d3
2382	Ultra-morphology of the scale as an indicator of the stress of Acid Black-1 (AB-1, CI: 20470) and zinc (Zn)	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Zoology, Khalsa College, Amritsar, Punjab 143002, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064643534&doi=10.1007%2fs11356-019-05067-4&partnerID=40&md5=e59c17e35a6d9720e33d44c20f8694e2
2383	Performance analysis and comparison of parallel computing frameworks: Sips and openmp	GNDU, CSE Department, Asr, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084048132&doi=10.1109%2fICCS45141.2019.9065343&partnerID=40&md5=d565cf7c8b5ca80677da026813e1cb40
2384	Innovative behavioral techniques to reduce stress among vii grade learners	Guru Nanak Dev University, Tf-40, Gndu Campus, Amritsar, 143005, India; Guru Nanak Dev University, Amritsar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066762808&partnerID=40&md5=89fb6a7a3bdc4532e1fef6a53bc559db
2385	Myxococcus xanthus truncated globin HbO: in silico analysis and functional characterization	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Centre for Systems Biology and Bioinformatics, Panjab University, Chandigarh, India; Department cum National Centre for Human Genome Studies and Research, Panjab University, Chandigarh, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061190317&doi=10.1007%2fs11033-019-04662-5&partnerID=40&md5=6e2c5ec80102975cd34a3cdd55a87a4d
2386	Machine learning configurations for enhanced human protein function prediction accuracy	Guru Nanak Dev University, Amritsar, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079578662&doi=10.1007%2f978-981-13-6295-8_4&partnerID=40&md5=6366d4340f00eb4e557142d9b5bd76f7
2387	Efficient and Fast Copy Move Image Forgery Detection Technique	Guru Nanak Dev University (GNDU), Amritsar, India	1	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063811077&doi=10.1109%2fICCNS.2018.8663072&partnerID=40&md5=09cd956d7c03db88c7228374c1920bac
2388	Assessment of spatio-temporal variation in pond water quality: A case study	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143 005, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071531923&partnerID=40&md5=a1f945daa0449ca5f978eed9e2803040
2389	Dust-acoustic solitary waves and shocks in nonthermal plasmas	Visva-Bharati University, Santiniketan, 731235, India; Guru Nanak Dev University, Amritsar, 143005, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068622549&doi=10.23919%2fURSIAP-RASC.2019.8738780&partnerID=40&md5=e1af2f094e874e94d354661840_0bfbf7
2390	Emotional intelligence: a analytical study of basketball players	Department of Physiotherapy, Guru Nanak Dev University, Amritsar, Punjab, India	1	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078908741&doi=10.31782%2fIJCRR.2019.11301&partnerID=40&md5=44833b3bab03d497a8d2568026c67115
2391	Rationally designed molecules for resurgence of cyanide mitigated cytochrome c oxidase activity	Department of Chemistry, UGC Sponsored Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055732305&doi=10.1016%2fj.bioorg.2018.10.045&partnerID=40&md5=62f4e48991b0261b5c210c75cecec910
2392	Involuntary migration in the border belt of Indian Punjab	Department of Political Science, Guru Nanak Dev University, Amritsar, Punjab, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064032532&doi=10.1007%2f978-981-13-2778-0_9&partnerID=40&md5=a3a5ede1be7d04c451c12c1bf3b715d6
2393	An empirical evaluation of an advanced version control tool in conflict detection and resolution	Department of Computer Science, Guru Nanak Dev University, Amritsar, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053046688&doi=10.1080%2f1206212X.2018.1512223&partnerID=40&md5=49c5241fdbcaf45e7efd4df295142723

2394	Cloud Security and Forensic Awareness Survey: An Empirical Analysis	Department of Computer Science, Guru Nanak Dev University, Amritsar, 143005, India; Department of Computer Science and Engineering GNDU Regional Campus, Jalandhar, 144007, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85108814686&doi=10.36478%2fjEASCI.2019.539.544&partnerID=40&md5=44e9fd97a9815f819bde65a97716499
2395	Effect of cyclization on bond dissociation enthalpies, acidities and proton affinities of carbamate molecules: A theoretical study	Department of Chemistry, Guru Nanak Dev University College, Verka, Amritsar, India; Hans Raj Mahila Maha Vidyalaya Jalandhar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85106620788&doi=10.1016%2fj.rechem.2019.100003&partnerID=40&md5=a22c39ad07228169860ba81b5a478ddd
2396	New paradigm in degradation of lignocellulosic biomass and discovery of novel microbial strains	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085833814&doi=10.1007%2f978-981-13-8487-5_16&partnerID=40&md5=d2cb559373762562cb168e77cd1a654c
2397	Uptake, accumulation, and toxicity of metal nanoparticles in autotrophs	Department of Chemistry, University of Petroleum & Energy Studies, Dehradun, Uttarakhand, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Chemistry, Lovely Professional University, Phagwara, Punjab, India; Department of Chemistry, G.B. Pant University of Agriculture & Technology, Pantnagar, Uttarakhand, India; Department of Biotechnology, DBS Campus Bhimtal, Kumaun University, Nainital, Uttarakhand, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085451022&doi=10.1007%2f978-981-32-9370-0_7&partnerID=40&md5=88ee5e0408e38053e219483a89a39851
2398	Design of Hybrid DWDM and SAC-OCDMA System Utilizing ZCC Code to Enhance User Volume	PTU Kapurthala, Kapurthala, Punjab, India; Department of ECE, KCET, Amritsar, Punjab, India; Department of Electronics, GNDU RC Jalandhar, Jalandhar, Punjab, India; Department of Computer Applications, ACET Amritsar, Meharbanpur, Punjab, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082319789&doi=10.1007%2f978-3-030-03146-6_122&partnerID=40&md5=37041192c886bcf7daf474d05c9c2b09
2399	Evaluation of antinociceptive effect of seed extracts of Eugenia jambolana Linn	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	7	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079874221&partnerID=40&md5=7ec8161dee126b15eb3b37f9030e85c4
2400	Human protein function prediction enhancement using decision tree based machine learning approach	Hindu College, Guru Nanak Dev University, Amritsar, India; Guru Nanak Dev University, Amritsar, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077684092&doi=10.1007%2f978-981-15-1384-8_23&partnerID=40&md5=d1ad4bc4e5bf0f7a1e4c7d276063c99a
2401	On chebyshev centers in metric spaces	Department of Mathematics, Guru Nanak Dev University, Amritsar, India	1	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077379514&doi=10.2298%2fPIM1920047N&partnerID=40&md5=9afe3afaa90ce0b66886d0817074f841
2402	Applications of information measures to the theory of coding	IK Gujral Punjab Technical University, Kapurthala, India; Department of Applied Sciences, Khalsa College of Engineering and Technology, Amritsar, India; Department of Mathematical Sciences, IK Gujral Punjab Technical University, Kapurthala, India; Department of Mathematics, University School of Sciences, Rayat Bahra University, Kharar, Mohali, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075667523&partnerID=40&md5=7bcf712f25de80a7bb39a9f1d494a282
2403	Risk factor analysis for breast cancer in premenopausal and postmenopausal women of Punjab, India	Human Cytogenetics Laboratory, Department of Human Genetics, Guru Nanak Dev University, Vallah, Amritsar, Punjab, India; Department of Surgery, Sri Guru Ram Das Institute of Medical Sciences and Research, Vallah, Amritsar, Punjab, India; Department of Pathology, Sri Guru Ram Das Institute of Medical Sciences and Research, Vallah, Amritsar, Punjab, India; Department of Radiotherapy, Sri Guru Ram Das Institute of Medical Sciences and Research, Vallah, Amritsar, Punjab, India; Department of Biochemistry, Sri Guru Ram Das Institute of Medical Sciences and Research, Vallah, Amritsar, Punjab, India	9	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075545119&doi=10.31557%2fAPJCP.2019.20.11.3299&partnerID=40&md5=d573183f202441fa4cd42ad48a817b8a
2404	Cognitive reasoning processes and identity achievement: Mediating role of identity processing styles	Khalsa College of Education, Amritsar, Punjab, India; Department of Psychology, Guru Nanak Dev University Amritsar, Punjab, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075536097&doi=10.33824%2fPJPR.2019.34.3.25&partnerID=40&md5=bcd8163bdf004fbdf0e99cbdd6382b3
2405	Rank Based Multi Path Job Execution Sequencing for Multi Cluster Environment to Find Shortest Path	CSE Department, GNDU, Amritsar, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075236934&doi=10.1007%2f978-981-15-0108-1_4&partnerID=40&md5=a3e542b28da288b74e9ed1c1df0728ac
2406	Role of Perseverance and Persistence for Retaining and Stimulating MOOC Learners	Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus, Jalandhar, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075233182&doi=10.1007%2f978-981-15-0108-1_24&partnerID=40&md5=4892441b742187736750e2cbd8040024

2407	Formulation and evaluation of ferrous ascorbate floating tablets for the treatment of anaemia	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	8	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075158316&doi=10.2174%2f2210303109666190708151137&partnerID=40&md5=efe5a3035de02a4e6d9d7fa50e353d
2408	Suitability of FBG for Gain Flatness of 64 × 10 Gbps DWDM System Using Hybrid (EDFA+YDFA) Optical Amplifier in C + L Band up to 50 GHz (0.4 nm) Channel Spacing	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Amritsar, India; Faculty of Engineering and Technology, Guru Nanak Dev University, GNDU, Regional Campus, Gurdaspur, 143521, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075013420&doi=10.1515%2fjoc-2019-0134&partnerID=40&md5=801da0fdfe553a13d12b9baa3b1774a
2409	A study to access factors affectingagripreneurship in diversified utilization of potato crop in state of Punjab and Himachal Pradesh	Mittal School of Business, School of Agriculture, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab 14441, India; University Business School, GNDU, UT Market Grand Trunk Road, Off, NH 1, Amritsar, Punjab 143005, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074976692&partnerID=40&md5=8266fdbbdfc3378bff9ab587d60
2410	New entropic modeling for discrete probability distributions	IK Gujral Punjab Technical University, Kapurthala, India; Department of Applied Sciences, Khalsa College of Engineering and Technology, Amritsar, India; Department of Mathematical Sciences, IK Gujral Punjab Technical University, Kapurthala, India; Department of Mathematics, University School of Sciences, Rayat Bahra University, Mohali, Kharar, India	3	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074716192&partnerID=40&md5=7e7982cc358d96446a1007299f5b24a1
2411	Announcement of an appointment of an outside as CEO: A study of stock market reaction	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074141736&partnerID=40&md5=a175d480a23b4fb5938625bd3413651b
2412	Environment friendly milling of Inconel-625	Mechanical Engineering Department, Punjabi University, Patiala, Punjab, 147002, India; Department of Mechanical Engineering, Guru Nanak Dev Engineering College, Ludhiana, Punjab, 141006, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	4	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074075703&doi=10.1504%2fIJMSI.2019.103209&partnerID=40&md5=a8cd95c987e6ec5e6f0a97b372c38029
2413	Biomimetic heterobimetallic architecture of Ni(II) and Fe(II) for CO2 hydrogenation in aqueous media. A DFT study	Department of Chemistry, UGC Sponsored Centre of Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India	1	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073709881&doi=10.1039%2fc9ra07139c&partnerID=40&md5=01d06d2608f172f7aeef35e77effd9d6
2414	Modelling the effect of knowledge management performance on organisational effectiveness: A study of e-governance in India	PG Department of Computer Science and IT, DAV College, Amritsar, Punjab, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073115212&doi=10.1504%2fEG.2019.102591&partnerID=40&md5=dd63000a5d1386e7aa5fadd7d907881
2415	Temperature dependent electrical transport characteristics of polyaniline films modified with gold nanoparticles	Department of Physics, Guru Nanak Dev University College Verka, Amritsar, 143001, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, S.R.Govt. College for Women, Amritsar, 143001, India	4	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073052862&doi=10.1016%2fj.matpr.2019.06.597&partnerID=40&md5=06022df87e9ced72656348e4020a635b
2416	Some approximate fixed point theorems without continuity of the operator using auxiliary functions	School of Mathematics, Thapar Institute of Engineering & Technology, P.O. Box 32, Bhadson Road, Patiala, Punjab 147-004, India; Department of Mathematics, Karaj Branch, Islamic Azad University, Imam Ali Complex, Moazen Blvd, Karaj, Tehran, Iran; Department of Mathematics, Guru Nanak Dev University, Grand Trunk Road, Off NH 1, Amritsar, Punjab 143005, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071445011&doi=10.21136%2fJMB.2018.0095-17&partnerID=40&md5=f934d10e3e0f231cde4fab0e67dd91c
2417	Ultrastructural changes in fin epithelium of Channa punctatus (Bloch) exposed to mercuric chloride: sem study	Aquatic Biology Laboratory, Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India	2	2019	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071055845&doi=10.1080%2f15287394.2019.1645069&partnerID=40&md5=b7e98078370edac1d949218f29ab8623
2418	Memory and pedagogy of Gurbānī Saṅgita: An autoethnographic Udāsī*	The Anād Foundation, New Delhi, India; Faculty of Humanities & Religious Studies, Guru Nānak Dēv University, Amritsar, India	1	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070850381&doi=10.1080%2f17448727.2019.1624937&partnerID=40&md5=e5025b88af3b85bbf9de14d6dfb10893
2419	Using a digital storage oscilloscope to visualise the induced EMF of a magnet passing through a solenoid	P.G. Department of Physics, Khalsa College, Amritsar, 143001, India; School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070764672&doi=10.1088%2f1361-6552%2fab1350&partnerID=40&md5=1a3e44de202704f55cafae2612d2f38a
2420	Hardiness as a moderator in the relationship between emotional autonomy and depression among adolescents	Department of Psychology, Guru Nanak Dev University, Amritsar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070714264&doi=10.33824%2fJIPR.2019.34.2.16&partnerID=40&md5=0743f0ce83433af2ba8477b8e999179c
2421	An innovative approach towards failure prediction of hard disk drives using machine learning	Dept. of Computer Engg. & Technology, Guru Nanak Dev University, Amritsar, India; Dept. of Computer Science, Guru Nanak Dev University, Amritsar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069856431&partnerID=40&md5=741178ec9968ec23fe615f5e5b4c1a25

2422	Immunological impairment as a marker of 4-nonylphenol induced stress	Guru Nanak Dev University, Amritsar, Punjab 143 005, India; Department of Fisheries, DGCN College of Veterinary and Animal Sciences, Chaudhary Sarwan Kumar Himachal Pradesh Krishi Vishvavidyalaya, Palampur, Himachal Pradesh, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069174663&partnerID=40&md5=a57d419ee64de4933a2a99c895e1ef76
2423	Quantitative Analysis of Software Component's Reusability	Guru Nanak Dev University, Amritsar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068339617&doi=10.1007%2f978-3-030-22964-1_5&partnerID=40&md5=a421991f993740250a4a86a80a09afb5
2424	Best coapproximation in quotient spaces	Department of Mathematics, Guru Nanak Dev University, Amritsar, India	1	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067611360&partnerID=40&md5=c94d1aa7a254ec7df565d1bfa654e821
2425	A survey of efficient trust management schemes in mobile ad-hoc network: Reliable trust management framework of MANET	Khalsa College of Engineering and Technology, Amritsar, India; PURCITMPunjab, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067064148&doi=10.4018%2fIJBCDN.2019070103&partnerID=40&md5=42d8459f0676a2c696e4bb35d768764b
2426	Magnetoacoustic Nonlinear Solitary and Freak Waves in Pair-Ion Plasma	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066893206&doi=10.1515%2fzna-2019-0031&partnerID=40&md5=f0025b0dd5cc5829fc1138d4b6cfb85
2427	Rejoinder 2: Straightening the record: Aural memories are historical evidence	Faculty of Humanities and Religious Studies, Guru Nanak Dev University, Amritsar, India	1	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066839235&doi=10.1080%2f17448727.2019.1625106&partnerID=40&md5=00bfa978d60bb967e0d7059c1bb3bf87
2428	Exploiting Parallelism Available in Loops Using Abstract Syntax Tree	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, 143005, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066146271&doi=10.1007%2f978-981-13-5953-8_47&partnerID=40&md5=11442b0ef9e1525342a3818f9a2ac7fe
2429	Persistent Dimer Emission in Thermally Activated Delayed Fluorescence Materials	Not Available	19	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065070455&doi=10.1021%2facs.jpcc.9b01458&partnerID=40&md5=bdf28846728ba18925b2063b0db95e89
2430	An improved exponential type estimator of population mean of sensitive variable using optional randomized response technique	Department of Mathematics,, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Mathematics, Guru Nanak Dev University, Amritsar, Punjab, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064540548&doi=10.18187%2fnpjor.v15i1.2588&partnerID=40&md5=63f025dfd2a2c20ad7d5b0afea160323
2431	AMST-MAC: Adaptive sleeping multi-frames selective data transmission control for wireless sensor networks	DAV Institute of Engineering and Technology, Kabir Nagar, Jalandhar Punjab, India; Brar BBSBEC, Fatehgarh Sahib, Punjab, India; Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India	3	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063755403&doi=10.1504%2fijaijp.2019.098564&partnerID=40&md5=0b31db5a052fa2e3c1ba2a9719fa654a
2432	Cloud security and forensic awareness survey: An empirical analysis	Department of Computer Science, Guru Nanak Dev University, Amritsar, 143005, India; Department of Computer Science and Engineering GNDU Regional Campus, Jalandhar, 144007, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059605063&doi=10.3923%2fjasci.2019.539.544&partnerID=40&md5=a6c39bdb2ba1e727ae78001f4db84abf
2433	Impact of neighboring agent's characteristics with Q-learning in network multi-agent system	Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus, Gurdaspur, Punjab 143521, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058987315&doi=10.1007%2f978-981-13-3140-4_67&partnerID=40&md5=6860fd7a4f4fa3da495b79bb402989ec
2434	A benzimidazolyl terpyridine-Fe 2+ system and its recognition driven molecular model of a traffic light	Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi, 221005, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Institute of Inorganic Chemistry, University of Göttingen, Tammannstrasse 4, Göttingen, 37077, Germany; Department of Chemistry, University of Reading, Whiteknights, Reading RG6 6AD, United Kingdom	7	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058756288&doi=10.1039%2fc8dt03690i&partnerID=40&md5=ab712e5a2619bb4e77b9b0f5a102e19a
2435	Fault Aware Improved Clustering Algorithm to Improve Execution Time of the Cloudlets	Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058265051&doi=10.1007%2f978-981-13-3143-5_32&partnerID=40&md5=8e9b5e682ac48b6d90cbd2d5717cce9
2436	Sanction enforcement for norm violation in multi-agent systems: a cafe case study	Department of Computer Science & Engineering, Guru Nanak Dev University Regional Campus, Gurdaspur, Punjab 143521, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054820422&doi=10.1007%2f978-981-13-1610-4_33&partnerID=40&md5=caca73f42c13d6b55f69ea146312d05f
2437	Parametric and functional-based analysis of object-oriented dynamic coupling metrics	Guru Nanak Dev University, Amritsar, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053454580&doi=10.1007%2f978-981-10-8797-4_48&partnerID=40&md5=0cd85ebdab5a70b65d566a8de50a1cfb
2438	Examination of sense significance in semantic web services discovery	Guru Nanak Dev University, Amritsar, India	2	2019	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053438462&doi=10.1007%2f978-981-10-8797-4_52&partnerID=40&md5=d7be34069cfc3a9132de4f0b5d0a2e7f

2439	A context-aware recommender engine for smart kitchen	GNDU Regional Campus, Jalandhar, India	2	2019	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050409325&doi=10.1007%2f978-981-10-8971-8_16&partnerID=40&md5=cb4fec5cc84d0f45977fec65f5f5e9d6
2440	National Seminar cum Workshop on "Road Safety and Right to Walk"	Punjab Police	71	2019	07 October, 2019	Collaboration	https://drive.google.com/file/d/1VZ8NOWyF5W334TuPskhK1IOMk5AXhBJ/view?usp=sharing
2441	3rd Indian Congress of Industrial and Organizational Psychology (3rd ICIO, 2019)	Society of Industrial and Organizational Psychology (SOIOP), Varanasi (U.P.)	105	2019	01-02 Nov, 2019.	Collaboration	https://drive.google.com/file/d/1VZ8NOWyF5W334TuPskhK1IOMk5AXhBJ/view?usp=sharing
2442	Guest Lecture on "Cement Based Value added Products"	J.K. Cement (White Cement Division)	85	2019	30-Sep-19	Collaboration	Not Available
2443	Workshop on "Mainstreaming Sustainability in Curricula of the Built Environment Courses"	Centre for Science and Environment, New Delhi	65	2019	30 October, 2019 to 31 October, 2019	Collaboration	https://drive.google.com/file/d/1VZ8NOWyF5W334TuPskhK1IOMk5AXhBJ/view?usp=sharing
2444	Training Programme on "Sustainability and Circularity (Mass-Value-Carbon)"	Centre for Science and Environment, New Delhi	52	2019	02 April, 2019 to 03 April, 2019	Collaboration	Not Available
2445	Special lecture on 'Religion of Sri Guru Nanak Dev Ji'	Principal S. Iqbal Singh Memorial Trust	88	2019	02 April, 2019	Collaboration	Not Available
2446	Workshop on "Capacity Building of Sanitation for Small and Medium Size Towns"	National Institute of Urban Affairs	55	2019	26 April, 2019	Collaboration	https://drive.google.com/file/d/1VZ8NOWyF5W334TuPskhK1IOMk5AXhBJ/view?usp=sharing
2447	Seminar on "Resilient Cities with special focus on Amritsar"	ISPER	70	2019	27 February, 2019 to 28 February, 2019	Collaboration	https://drive.google.com/file/d/1VZ8NOWyF5W334TuPskhK1IOMk5AXhBJ/view?usp=sharing
2448	Workshop on 'Enabling Low-Impact Approach to Built Environment'	Sustainable Building and Heritage Programme of Centre of Science and Environment (CSE)	58	2019	05 September, 2018	Collaboration	Not Available
2449	Memorial University of Newfoundland, Newfoundland & Labrador, Canada	Memorial University of Newfoundland, Newfoundland & Labrador, Canada	36	2020	25-02-20	Faculty and students exchange programs, research and development participation	https://drive.google.com/file/d/1s6YdJ1H5rtKvvpP5IUVRFok-AAUk157K/view?usp=sharing
2450	College of Agriculture and Natural Resources, National Chung Hsing University (NCHU), Taiwan	College of Agriculture and Natural Resources, National Chung Hsing University, Taiwan	31	2020	24-07-20	Faculty and students exchange programs, research and development participation	https://drive.google.com/file/d/1s6YdJ1H5rtKvvpP5IUVRFok-AAUk157K/view?usp=sharing
2451	Society for Promotion of Science & Technology in India (SPSTI)	Society for Promotion of Science & Technology in India (SPSTI)	27	2020	11-08-20	Academic collaboration	https://drive.google.com/file/d/1s6YdJ1H5rtKvvpP5IUVRFok-AAUk157K/view?usp=sharing
2452	National Highway Authority of India	National Highway Authority of India	31	2020	29-10-20	Academic collaboration	https://drive.google.com/file/d/1s6YdJ1H5rtKvvpP5IUVRFok-AAUk157K/view?usp=sharing
2453	Dr. Avinash Kaur (Professor Retd.), Amritsar	Dr. Avinash Kaur (Professor Retd.), Amritsar	32	2020	21-10-20	Academic collaboration	https://drive.google.com/file/d/1s6YdJ1H5rtKvvpP5IUVRFok-AAUk157K/view?usp=sharing
2454	Centre for Science and Environment, New Delhi	Centre for Science and Environment, New Delhi	24	2020	09-12-20	Faculty and students exchange programs, research and development participation	https://drive.google.com/file/d/1s6YdJ1H5rtKvvpP5IUVRFok-AAUk157K/view?usp=sharing
2455	Nanak Singh Novelist Memorial Trust, Amritsar	Nanak Singh Novelist Memorial Trust, Amritsar	22	2020	14-12-20	Academic collaboration	https://drive.google.com/file/d/1s6YdJ1H5rtKvvpP5IUVRFok-AAUk157K/view?usp=sharing
2456	Cities Forum, London	Cities Forum, London	41	2020	30-12-2020	Advisory, Research And Knowledge Support For Sustainability In The Built Environment	https://drive.google.com/file/d/1s6YdJ1H5rtKvvpP5IUVRFok-AAUk157K/view?usp=sharing
2457	CTIF Global Capsule, Denmark (CGC)	CTIF Global Capsule, Denmark (CGC)	33	2020	15/2/2021	Teaching, Research and Training Collaboration	https://drive.google.com/file/d/1s6YdJ1H5rtKvvpP5IUVRFok-AAUk157K/view?usp=sharing

2458	Photosynthetic Response of Plants Under Different Abiotic Stresses: A Review	State Key Laboratory of Subtropical Silviculture, Zhejiang A&F University, Hangzhou, 311300, China; Department of Botany, DAV University, Sarmastpur, Jalandhar, Punjab 144012, India; School of Land and Food, University of Tasmania, Hobart, TAS, Australia; Department of Environment Education, Government College of Commerce and Business Administration, Chandigarh, 160047, India; Mehr Chand Mahajan D.A.V. College for Women, Chandigarh, 160036, India; School of Bioengineering & Biosciences, Lovely Professional University, Punjab, 144411, India; Plant Stress Physiology Laboratory, Department of Botanical & Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Crop Science and Biotechnology, Dankook University, Chungnam, South Korea; Centre for Life Sciences, Central University of Jharkhand, Brambe, Ranchi, India; Department of Zoology, DAV University, Jalandhar, 144012, India	19	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071095169&doi=10.1007%2fs00344-019-10018-x&partnerID=40&md5=2513d90cbf991bdd9f428f44bc5d4040
2459	Phenolic composition, antioxidant potential and health benefits of citrus peel	P.G. Department of Biotechnology, Khalsa College, Amritsar, Punjab 143002, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85080030419&doi=10.1016%2fj.foodres.2020.109114&partnerID=40&md5=084782d686509045a09c0a6fa16f2415
2460	The role of brand community identification and reward on consumer brand engagement and brand loyalty in virtual brand communities	University School of Financial Studies, Guru Nanak Dev University, Amritsar, Punjab, India; School of Management Studies, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, India; College of Business Administration, Prince Sultan University, Riyadh, Saudi Arabia; Montpellier Business School, France; Tallinn University of Technology, Estonia; Department of Strategy & Management/Center for Service Innovation, NHH Norwegian School of Economics, Owen G. Glenn Building, 12 Grafton Road, Private Bag 92019, Auckland, 1142, New Zealand	4	2020	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075966545&doi=10.1016%2fj.tele.2019.101321&partnerID=40&md5=3c93dd0d3fdab6e459f96ea7e472ba9e
2461	Chromium bioaccumulation and its impacts on plants: An overview	State Key Laboratory of Subtropical Silviculture, Zhejiang A&F University, Hangzhou, 311300, China; School of Bioengineering & Biosciences, Lovely Professional University, Punjab, 144411, India; School of Land and Food, University of Tasmania, Hobart, TAS 7005, Australia; State Higher Education Department, Jammu and Kashmir, 180001, India; Mehr Chand Mahajan D.A.V. College for Women, Chandigarh, 160036, India; Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India	10	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078220922&doi=10.3390%2fplants9010100&partnerID=40&md5=023490fc9e64b34fdb9c01561ef89a44
2462	Remediation techniques for removal of heavy metals from the soil contaminated through different sources: a review	Department of Soil Science, Punjab Agricultural University, Ludhiana, Punjab, India; Department of Zoology, Khalsa College Amritsar, Amritsar, Punjab, India; Department of Soil and Water Conservation, Government of Punjab, Bathinda, Punjab, India; Department of Agricultural Chemistry and Soil Science, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, West Bengal, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076789520&doi=10.1007%2fs11356-019-06967-1&partnerID=40&md5=4ba99df9ccf9b0aa7a8b3fe1272f7681
2463	Development of new hybrid model of discrete wavelet decomposition and autoregressive integrated moving average (ARIMA) models in application to one month forecast the casualties cases of COVID-19	Guru Nanak Dev University College, Narot Jaimal Singh, Pathankot, Punjab 145026, India; Department of Mathematics, I.K. Gujral Punjab Technical UniversityPunjab 144603, India; Department of Mathematics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Mathematics, Sri Guru Angad Dev College, Khadoor Sahib, Tarn Taran, Punjab 143117, India; Department of Mathematics, Lovely Professional UniversityPunjab 144411, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084536150&doi=10.1016%2fj.chaos.2020.109866&partnerID=40&md5=f70fa604d5997fb3ba9fdbdc4e11a36

2464	Nitric oxide-mediated regulation of oxidative stress in plants under metal stress: a review on molecular and biochemical aspects	State Key Laboratory of Subtropical Silviculture, Zhejiang A&F University, Hangzhou, 311300, China; GreenUPorto – Sustainable Agrifood Production Research Centre, Biology Department, Faculty of Sciences of University of Porto, Porto, 4169-007, Portugal; Department of Botany, DAV University, Jalandhar, 144012, India; School of Land and Food, University of Tasmania, Hobart, TAS, Australia; Department of Environment Education, Government College of Commerce and Business Administration, Chandigarh, 160047, India; Department of Botany, M.C.M.D.A.V. College for Women, Chandigarh, India; Plant Physiology and Biochemistry Laboratory, Department of Botany, School of Biosciences and Biotechnology, Baba Ghulam Shah Badshah University, Rajouri, 185234, India; Plant Stress Physiology Laboratory, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India	13	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069910443&doi=10.1111%2fppl.13004&partnerID=40&md5=36338bc3412fea961d14df600d384dc4
2465	Assessment of heavy-metal pollution in three different Indian water bodies by combination of multivariate analysis and water pollution indices	Department of Botany, DAV University, Jalandhar, Punjab, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Geography, Instituto de Geomorfología y Suelos, University of Málaga, Málaga, Spain	6	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077584736&doi=10.1080%2f10807039.2018.1497946&partnerID=40&md5=ad4a1644b9c7064561679d670a36bf57
2466	A Bolasso based consistent feature selection enabled random forest classification algorithm: An application to credit risk assessment	Department of computer science and engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076548638&doi=10.1016%2fj.asoc.2019.105936&partnerID=40&md5=6c1ce323ff7d0f76ab32334acb4b49b
2467	Influence of microwave roasting on chemical composition, oxidative stability and fatty acid composition of flaxseed (Linum usitatissimum L.) oil	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; P.G. Department of Biotechnology, Khalsa College, Amritsar, Punjab 143002, India; Eastern Regional Research Center, Agricultural Research Service, United States Department of Agriculture, 600 East Mermaid Lane, Wyndmoor, PA 19038, United States	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084472362&doi=10.1016%2fj.foodchem.2020.126974&partnerID=40&md5=4091f62bd6f0001f7a936199dc632f00
2468	Smart Monitoring and Controlling of Government Policies Using Social Media and Cloud Computing	Department of Computer Engineering & Technology, Guru Nanak Dev University, Amritsar, India; Emerging Market Research Center (EMaRC), School of Management, Swansea University, Swansea, United Kingdom; Departement of Computer Science, Guru Nanak Dev University, Amritsar, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; Amman University College for Banking and Financial Sciences, Al-Balqa Applied University, Amman, Jordan; Emerging Market Research Center (EMaRC), School of Management, Swansea University, Swansea, United Kingdom	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064614751&doi=10.1007%2fs10796-019-09916-y&partnerID=40&md5=1d14963cd89d1f059ff989932b9856e6
2469	Antioxidant compounds from microbial sources: A review	ICAR-Central Soil Salinity Research Institute, Karnal, India; Department of Biosciences, Manipal University Jaipur, Jaipur, 303007, India; Microbial Technology Laboratory, Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076108360&doi=10.1016%2fj.foodres.2019.108849&partnerID=40&md5=840775a8f087f7236e515b81603fc442
2470	Microbiota in vaginal health and pathogenesis of recurrent vulvovaginal infections: A critical review	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, 143005, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078677362&doi=10.1186%2fs12941-020-0347-4&partnerID=40&md5=45115ffa5c8b125467c7aa5e0399b7b7
2471	MIPs for commercial application in low-cost sensors and assays – An overview of the current status quo	Sensor Engineering Department, Faculty of Science and Engineering, Maastricht University, P.O. Box 616, Maastricht, 6200 MD, Netherlands; Department of Chemistry, Guru Nanak Dev University, UGC-Centre for advanced studies-1, Amritsar, 143005, India; School of Engineering, Newcastle University, Merz Court, Newcastle Upon Tyne NE1 7RU, United Kingdom	7	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092020048&doi=10.1016%2fj.snb.2020.128973&partnerID=40&md5=aae3895fd7d55cf3a3d5e995c023461a

2472	Study of ARIMA and least square support vector machine (LS-SVM) models for the prediction of SARS-CoV-2 confirmed cases in the most affected countries	Guru Nanak Dev University College, Narot Jaimal Singh, Pathankot, Punjab, India; Department of Mathematics, I.K. Gujral Punjab Technical UniversityPunjab, India; Department of Mathematics, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Mathematics, Sri Guru Angad Dev College, Khadoor Sahib, Tarn Taran, Punjab, India; Department of Mathematics, Lovely Professional UniversityPunjab, India; Guru Nanak Dev University College, Verka, Amritsar, Punjab, India; Centre for Fire, Explosive and Environment Safety (CFEES), Defence Research and Development Organisation (DRDO), Timarpur, Delhi 110054, India	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087723718&doi=10.1016%2fj.chaos.2020.110086&partnerID=40&md5=66b264aa83e2cdf820ade2764dc33753
2473	Pollution assessment and spatial distribution of roadside agricultural soils: a case study from India	Department of Botany, DAV University, Jalandhar, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Laboratory of Remote Sensing and GIS, Department of Soil Science, University of Tehran, Karaj, Iran; Punjab Remote Sensing Centre, Ludhiana, Punjab, India	8	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079822295&doi=10.1080%2f09603123.2019.1578865&partnerID=40&md5=55533e56fdf129a23c2e45af2ca4d6b2
2474	Chemodosimeters for optical detection of fluoride anion	Department of Chemistry, Center for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India; School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, Punjab, India; Department of Chemistry, Center for Advanced Studies, Panjab University, Chandigarh, India	8	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075993933&doi=10.1016%2fj.ccr.2019.213138&partnerID=40&md5=7c0a9e8519891a623983bc27816079a9
2475	Emerging trends in clinical implications of bio-conjugated silver nanoparticles in drug delivery	Department of Chemistry, University of Petroleum & Energy Studies, Dehradun, 248007, India; Department of Chemistry, Uttarakhand University, Dehradun, 248007, India; UGC Sponsored Centre for Advanced Studies, Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Lovely Professional University, Phagwara, 144411, India; School of Pharmacy, Suresh Gyan Vihar University, Jagatpura, Jaipur 302 017, India; School of Pharmaceutical Sciences, Shoolini University, Bajhol, Sultanpur, Solan, Himachal Pradesh 173 229, India; Department of Life Sciences, School of Pharmacy, International Medical University, Bukit Jalil, Kuala Lumpur, 57000, Malaysia; School of Pharmacy and Pharmaceutical Science, Ulster University, County Londonderry, Coleraine, Northern Ireland BT52 1SA, United Kingdom; Discipline of Pharmacy, Graduate School of Health, University of Technology Sydney, Sydney, NSW 2007, Australia; Priority Research Centre for Healthy Lungs, Hunter Medical Research Institute (HMRI) & School of Biomedical Sciences and Pharmacy, University of Newcastle, Callaghan, NSW 2308, Australia	12	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079016647&doi=10.1016%2fj.colcom.2020.100244&partnerID=40&md5=da471464dfbdd7d674eefe35a0d5ba02
2476	A review of ecological risk assessment and associated health risks with heavy metals in sediment from India	Department of Botany, Government Degree College, Ramban, Jammu 182144, India; State Key Laboratory of Subtropical Silviculture, Zhejiang Agriculture & Forest University, Hangzhou, 311300, China; Department of Botany, University of JammuJammu and Kashmir 180006, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Soil Erosion and Degradation Research Group, Department of Geography, University of Valencia, Valencia, 46010, Spain	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083333691&doi=10.1016%2fj.ijsrc.2020.03.012&partnerID=40&md5=243fdb342bfd33992b126704086a8235
2477	Magnetic, elastic, dielectric, microwave absorption and optical characterization of cobalt-substituted nickel spinel ferrites	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India; Advanced Analytical Laboratory, Andhra University, Visakhapatnam, 530003, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081651820&doi=10.1016%2fj.mseb.2020.114513&partnerID=40&md5=c43b0f4acbf6dbc35cd70750da7081d2
2478	Can twitter analytics predict election outcome? An insight from 2017 Punjab assembly elections	Department of Computer Engineering & Technology, Guru Nanak Dev University, Amritsar, India; Emerging Market Research Center (EMaRC), School of Management, Swansea University, Swansea, United Kingdom; Department of Computer Science, Guru Nanak Dev University, Amritsar, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077716854&doi=10.1016%2fj.gig.2019.101444&partnerID=40&md5=42b3392c2131a7cef4c7c9441b1c3a61

2479	Quantitative assessment of exposure of heavy metals in groundwater and soil on human health in Reasi district, Jammu and Kashmir	Department of Physics, DAV College, Katra Sher Singh, Amritsar, Punjab 143001, India; Department of Physics, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab 144011, India; Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143001, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064849188&doi=10.1007%2fs10653-019-00294-7&partnerID=40&md5=f583fc5be3d1fe6e606066419dfc75a9
2480	A chaotic and stressed environment for 2019-nCoV suspected, infected and other people in India: Fear of mass destruction and causality	Deptt. of Computer Science, GNDU, India; Deptt. of CSA, DAV University, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082922632&doi=10.1016%2fi.ajp.2020.102049&partnerID=40&md5=465078b381a6401c447e76c9b5a6aea6
2481	Role of Rutin Nanoemulsion in Ameliorating Oxidative Stress: Pharmacokinetic and Pharmacodynamics Studies	Department of Pharmacy, School of Medical and Allied Sciences, K. R. Mangalam University, Gurgaon, Haryana, India; Department of Clinical Pharmacy and Pharmacology, RAK College of Pharmaceutical Sciences, RAK Medical and Health Sciences University, United Arab Emirates; Department of Pharmaceutics, Khalsa College of Pharmacy, Amritsar, India; Department of Pharmacology, College of Clinical Pharmacy, Imam Abdulrahman Bin Faisal University, P.O.BOX 1982, Dammam, 31441, Saudi Arabia; Department of Pharmaceutics, School of Pharmaceutical Education and Research, Jamia Hamdard, New Delhi, India; Department of Pharmaceutical Technology, Meerut Institute of Engineering and TechnologyUttar Pradesh, India	7	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079064542&doi=10.1016%2fi.chemphyslip.2020.104890&partnerID=40&md5=5ab1b0295b2b4643544e7d88e1f8e0d2
2482	Oat starch: Physico-chemical, morphological, rheological characteristics and its applications - A review	Department of Food Science and Technology, Chaudhary Devi Lal University, Sirsa, India; Department of Food Science and Technology, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; Department of Energy and Environmental Science, Chaudhary Devi Lal University, Sirsa, India	7	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082016683&doi=10.1016%2fi.ijbiomac.2020.03.083&partnerID=40&md5=b78f75c7246fd6a914a941af89af63fc
2483	Proximate composition, amino acid profile, pasting and process characteristics of flour from different Tartary buckwheat varieties	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar 143005, Punjab, India; P.G. Department of Biotechnology, Khalsa College, Amritsar 143002, Punjab, India; Eastern Regional Research Center, Agricultural Research Service, United States Department of Agriculture, 600 East Mermaid Lane, Wyndmoor, PA 19038, United States	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077311092&doi=10.1016%2fi.foodres.2019.108946&partnerID=40&md5=d2a88eac3d8a0f8a5cec4fc0e363381f
2484	Physical, structural and thermal properties of composite edible films prepared from pearl millet starch and carrageenan gum: Process optimization using response surface methodology	Department of Food Science and Technology, Chaudhary Devi Lal University, Sirsa, India; Department of Food Science and Technology, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India; Amity Institute of Food Technology, Amity University NoidaUttar Pradesh, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076541051&doi=10.1016%2fi.ijbiomac.2019.09.111&partnerID=40&md5=f27177a77658e3288cbcb2149ef80c1
2485	Variability in chemical composition and antimicrobial activity of Tagetes minuta L. essential oil collected from different locations of Himalaya	Academy of Scientific and Innovative Research, New Delhi, India; Agrotechnology of Medicinal, Aromatic and Commercially Important Plants Division, CSIR-Institute of Himalayan Bioresource Technology, (Council of Scientific and Industrial Research), Post Box No. 6, Palampur, 176 061, India; Biotechnology Division, CSIR- Institute of Himalayan Bioresource Technology, (Council of Scientific and Industrial Research), Post Box No. 6, Palampur, HP 176 061, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Natural Product Chemistry and Process Development Division, CSIR- Institute of Himalayan Bioresource Technology, (Council of Scientific and Industrial Research), Post Box No. 6, Palampur, HP 176 061, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083304971&doi=10.1016%2fi.indcrop.2020.112449&partnerID=40&md5=9f16ec09895ce83755269790cf957839
2486	Uracil-coumarin based hybrid molecules as potent anti-cancer and anti-bacterial agents	School of Pharmaceutical Sciences, MVN University, Palwal, HR-121105, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, PB-143005, India; Department of Medicinal Chemistry, School of Pharmacy, Virginia Commonwealth University, Richmond, VA 23219-1540, United States; EMC Group of Hospital, Green Avenue, Amritsar, PB-143001, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077153843&doi=10.1016%2fi.jscs.2019.12.001&partnerID=40&md5=442f99d670725210e52bc585fedc03af

2487	Composition dependent magnetic and microwave properties of exchange-coupled hard/soft nanocomposite ferrite	School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, 147004, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072622225&doi=10.1016%2fj.ialcom.2019.152391&partnerID=40&md5=fc41836efad94033a75ba547c330e449
2488	Current scenario of Pb toxicity in plants: Unraveling plethora of physiological responses	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Botany, School of Bioengineering and Biosciences, Lovely Professional University, Phagwara, Punjab, India; State Key Laboratory of Subtropical Silviculture, Zhejiang A&F University, Hangzhou, China	7	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067683607&doi=10.1007%2f398_2019_25&partnerID=40&md5=4499043cf1484ac3670ecaa50e8b8f58
2489	MoSe2Crystalline Nanosheets for Room-Temperature Ammonia Sensing	Department of Physics, Guru Nanak Dev University, Amritsar Punjab, 143005, India; Department of Physics, Assam University, Silchar, 788011, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85094858312&doi=10.1021%2facsanm.0c02011&partnerID=40&md5=5fc4c330bb5f5527b34bef3cd8c7b5e3
2490	Performance evaluation of 6.4 Tbps dual polarization quadrature phase shift keying Nyquist-WDM superchannel FSO transmission link: Impact of different weather conditions	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, India; Department of Physics, Anna University, University College of Engineering, Ramanathapuram, 623513, India; College of Engineering and Technology, Arab Academy for Science, Technology and Maritime Transport, Alexandria, Egypt	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083091078&doi=10.1016%2fj.aej.2020.03.031&partnerID=40&md5=e4604b42fb8c52b4c709ed3aaffffdd6
2491	Hydrothermally synthesized MoS2-multi-walled carbon nanotube composite as a novel room-temperature ammonia sensing platform	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089139855&doi=10.1016%2fj.apsusc.2020.147373&partnerID=40&md5=27feabc9843f35caf430628a0865c041
2492	Psychological fear and anxiety caused by COVID-19: Insights from Twitter analytics	Department of Computer Engineering & Technology, Guru Nanak Dev University, Amritsar, India; Department of Mechanical Engineering, Guru Nanak Dev University, Amritsar, India; Emerging Market Research Center (EMaRC), School of Management, Swansea University, Swansea, United Kingdom; Department of Computer Science, Guru Nanak Dev University, Amritsar, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	6	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087932869&doi=10.1016%2fj.ajp.2020.102280&partnerID=40&md5=64e3ec1db167cb5c216d119937a54b1a
2493	Brassinosteroids Regulate Functional Components of Antioxidative Defense System in Salt Stressed Maize Seedlings	Plant Stress Physiology Laboratory, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; School of Bioengineering & Biosciences, Lovely Professional University, Jalandhar, Punjab 144 411, India; PG Department of Botany, Hans Raj Mahila Maha Vidyalaya, Jalandhar, Punjab 144008, India; State Key Laboratory of Subtropical Silviculture, Zhejiang A&F University, Hangzhou, 311300, China	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082863861&doi=10.1007%2fs00344-020-10097-1&partnerID=40&md5=21c484fbc91ac173a7673b9a5c9ead3f
2494	Development of high-speed FSO transmission link for the implementation of 5G and Internet of Things	Division of Computational Physics, Institute for Computational Science, Ton Duc Thang University, Ho Chi Minh City, Viet Nam; Faculty of Electrical and Electronics Engineering, Ton Duc Thang University, Ho Chi Minh City, Viet Nam; Electronics and Communication Engineering Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074524642&doi=10.1007%2fs11276-019-02166-5&partnerID=40&md5=46c687c137bfa9a6cd43265674388408
2495	A critical review on toxicity of cobalt and its bioremediation strategies	Department of Botany, Giani Kartar Singh Memorial College, Urmur, Tanda, 144212, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Botany, Doaba College, Jalandhar, 144004, India; Department of Agriculture, Khalsa College, Amritsar, Punjab 143005, India; Department of Botany, Government Degree College, Ramban, Jammu 182144, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096580904&doi=10.1007%2fs42452-020-3020-9&partnerID=40&md5=7ff5ed194b8a5c9ab8492b967aff61ef6
2496	A dual-responsive anthrapyridone-triazole-based probe for selective detection of Ni ²⁺ and Cu ²⁺ : A mimetic system for molecular logic gates based on color change	Department of Bionanotechnology, Hanyang University, Ansan, 155-88, South Korea; Department of Chemistry, UGC Center for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076245549&doi=10.1016%2fj.dyepig.2019.108092&partnerID=40&md5=cc7120efeb302b7ca6ff95b9a54340cc
2497	Performance Comparison of Different Modulation Schemes in High-Speed MDM Based Radio Over FSO Transmission Link Under the Effect of Atmospheric Turbulence Using Aperture Averaging	Electronics and Communication Engineering Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074460626&doi=10.1007%2fs11277-019-06886-x&partnerID=40&md5=aca6977b8c20be7ef12280368a75af8f

2498	Investigation of a competent non-toxic Bi2O3–Li2O–CeO2–MoO3–B2O3 glass system for nuclear radiation security applications	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, Guru Nanak Dev University College Verka, Amritsar, Punjab, 143501, India; Department of Physics, Faculty of Science, Ataturk University, Erzurum, 25240, Turkey	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086725455&doi=10.1016%2fj.inoncrvsol.2020.120235&partnerID=40&md5=8014b245b1d7c510e96bf9565ec1c11e
2499	Synthesis, anti-plasmodial and cytotoxic evaluation of 1H-1,2,3-triazole/acyl hydrazide integrated tetrahydro-β-carboline-4-aminoquinoline conjugates	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Medicine, University of California, San Francisco, CA, United States	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075398599&doi=10.1016%2fj.bmcl.2019.126810&partnerID=40&md5=365bf8138ae4a35ab23deeb39bb00416
2500	Xanthine oxidase inhibitors: patent landscape and clinical development (2015–2020)	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091009075&doi=10.1080%2f13543776.2020.1811233&partnerID=40&md5=8b833a35b5864397bc55d5a4bb943a2b
2501	A novel anthrapyridone diamine-based probe for selective and distinctive Cu2+ and Hg2+ sensing in aqueous solution; utility as molecular logic gates	Department of Bionanotechnology, Hanyang University, Ansan, 155-88, South Korea; Department of Chemistry, UGC Center for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085583225&doi=10.1016%2fj.dyepig.2020.108522&partnerID=40&md5=5b15c4e5c77520b537ca07f720cc2480
2502	Structural and optical characterization of Eu and Dy doped CaWO4 nanoparticles for white light emission	Sensors and Glass Physics Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Hard X-ray Applications Laboratory, SUS, Raja Ramanna Centre for Advanced Technology, Indore, 452013, India; Homi Bhabha National Institute, Anushakti Nagar, Mumbai, 400094, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083677939&doi=10.1016%2fj.iallcom.2020.154804&partnerID=40&md5=4653690a9c6e241c81018308ab0e6d96
2503	The Rising Number of COVID-19 Cases Reflecting Growing Search Trend and Concern of People: A Google Trend Analysis of Eight Major Countries	Department of CSA, DAV University, Jalandhar, India; Department of CS, GNDU, Amritsar, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084964763&doi=10.1007%2fs10916-020-01588-5&partnerID=40&md5=7cf6a8968554d42c8a3d5740d8322191
2504	5G ready optical fog-assisted cyber-physical system for IoT applications	Department of Computer Science and Engineering, Khalsa College of Engineering and Technology, C Block Ranjit Avenue, Amritsar, Punjab, India; Department of Computer Science and Engineering, Central University of Himachal Pradesh Dharamshala, Dist. Kangra, Himachal Pradesh, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087667940&doi=10.1049%2fiet-cps.2019.0037&partnerID=40&md5=96da8073dfd8421f7e520a8b2c0ca55.Z
2505	X-band shielding of electromagnetic interference (EMI) by Co2Y barium hexaferrite, bismuth copper titanate (BCTO), and polyaniline (PANI) composite	Department of Physics, School of Physical Sciences and Chemical Engineering, Lovely Professional University, Phagwara, Punjab 144411, India; Department of Physics, Faculty of Science, Federal University Dutse, P.M.B. 7156, Dutse, Jigawa State, Nigeria; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Analytic Division and Centralised Instrument Facility, CSIR-Central Salt and Marine Chemicals Research Institute, Gijubhai Badheka Marg, Bhavnagar, India; Department of Mathematics, School of Physical Sciences and Chemical Engineering, Lovely Professional University, Phagwara, Punjab 144411, India; Department of Electronics and Communication, Guru Nanak Dev University, Amritsar, 143005, India	9	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078472065&doi=10.1016%2fj.jimmm.2020.166433&partnerID=40&md5=d4ff8086e0d3749ff294f41f8b964e34
2506	Impact of solidification on micromeritic properties and dissolution rate of self-nanoemulsifying delivery system loaded with docosahexaenoic acid	School of Pharmaceutical Sciences, Lovely Professional University, Phagwara, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India; Faculty of Pharmacy, Tishk International University, Erbil, Iraq; Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education and Research (Deemed to be University), Ooty, India; Department of Pharmacology, Chitkara College of Pharmacy, Chitkara University, Rajpura, India	19	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082409489&doi=10.1080%2f03639045.2020.1742143&partnerID=40&md5=6995db90dc3843b0cf9fb2e5cab5bc63
2507	A high-speed long-haul wavelength division multiplexing–based inter-satellite optical wireless communication link using spectral-efficient 2-D orthogonal modulation scheme	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076757364&doi=10.1002%2fdac.4293&partnerID=40&md5=7a6fd39d9a4dc57c0becbae55fe22561

2508	A novel method to classify bearing faults by integrating standard deviation to refined composite multi-scale fuzzy entropy	Department of Mechanical Engineering, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Information Technology, IIIT Allahabad, India; Discipline of Mechanical Engineering, Indian Institute of Technology, Indore, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077517328&doi=10.1016%2fj.measurement.2019.107441&partnerID=40&md5=2365abca7ffc71af8eec597d966950f5
2509	Near-IR discriminative detection of H2S and Cysteine with 7-nitro-2,1,3-benzoxadiazole-perylenediimide conjugate in water, live cells and solid state: Mimicking IMP, INH and NOR/OR complimentary logic	Department of Chemistry, UGC Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Environmental and Botanical Sciences, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemical Sciences, IK Gujral Punjab Technical University, Kapurthala, Punjab 144601, India	7	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074226954&doi=10.1016%2fj.ipphotochem.2019.112151&partnerID=40&md5=523dc05c8c8df3da8d64fb6f31d9a941
2510	CSR disclosure in developing and developed countries: a comparative study	University school of Financial Studies, Guru Nanak Dev University, Amritsar, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086176347&doi=10.1108%2fjgr-04-2019-0043&partnerID=40&md5=e15a5af39e13db6ad4ac2be8d1b033b8
2511	Performance Analysis of Modified AODV Routing Protocol with Lifetime Extension of Wireless Sensor Networks	Computer Science Engineering and Technology, I. K. Gujral Punjab Technical University, Kapurthala, 144603, India; Department of Computer Science, Khalsa College of Engineering and Technology, Amritsar, 143001, India; Panjab University SSG Regional Centre, Hoshiarpur, 146021, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078796355&doi=10.1109%2fACCESS.2020.2965329&partnerID=40&md5=99e466df8b07f891335df3fa856eb7d8
2512	Analysis of enhancement in gamma ray shielding proficiency by adding WO3 in Al2O3-PbO-B2O3 glasses using Phy-X/PSD	P.G. Department of Physics, Khalsa College, Amritsar, 143002, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; P.G. Department of Physics, Lyallpur Khalsa College, Jalandhar, 144001, India; Tissue Engineering Research Group, Department of Anatomy, Royal College of Surgeons in Ireland, Dublin 2, D02YN77, Ireland	8	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85101076464&doi=10.1016%2fj.imrt.2020.10.020&partnerID=40&md5=816ba849b10478f90c970e4264e26866
2513	Surface characterization and tribological performance analysis of electric discharge machined duplex stainless steel	Mechanical Engineering Faculty, Perm National Research Polytechnic University, Perm, 614000, Russian Federation; Mechanical Engineering Department, Khalsa College of Engineering and Technology, Amritsar, 143001, India; Mechanical Engineering Department, Beant College of Engineering and Technology, Gurdaspur, 143521, India	7	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092736645&doi=10.3390%2fmi111100926&partnerID=40&md5=9e2452e5efc8388a7d3ef29ef934cf71
2514	Perylene diimide dye threaded with dual-react able sites for detection of H2S and Hg2+: Diagnostic kit and cell imaging	Department of Chemistry, UGC Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083578843&doi=10.1016%2fj.dyevip.2020.108448&partnerID=40&md5=4ccbb2b760dc29321786f7aefb96aecdc
2515	Thiophene derivatives: A potent multitargeted pharmacological scaffold	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Pharmaceutical Chemistry, Khalsa College of Pharmacy, Amritsar, Punjab, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083330529&doi=10.1002%2fjihet.3990&partnerID=40&md5=5887b03b167a36f2100cdec2544aa4d7
2516	Room temperature high performance ammonia sensor using MoS2/SnO2 nanocomposite	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089147767&doi=10.1016%2fj.matpr.2020.01.208&partnerID=40&md5=0add15e45437d8a8a186873d33b7581e
2517	Performance Comparison of 2 × 20 Gbit/s-40 GHz OFDM Based RoFSO Transmission Link Incorporating MDM of Hermite Gaussian Modes Using Different Modulation Schemes	Electronics and Communication Engineering Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073992904&doi=10.1007%2fs11277-019-06750-y&partnerID=40&md5=12f30f33f1402c30d14d467884e784f0
2518	Ultra-high capacity long-haul PDM-16-QAM-based WDM-FSO transmission system using coherent detection and digital signal processing	Department of EEE, PSG College of Technology, Coimbatore, India; Department of EEE, SRM University, Chennai, India; Department of BME, KPR Institute of Engineering and Technology, Coimbatore, India; Department of Engineering and Technology, Guru Nanak Dev University, Regional Campus, Jalandhar, India; Department of ECE, Satyam Institute of Engineering and Technology, (IKG-PTU, Kapurthala), Amritsar, India; Shaheed Bhagat Singh State Technical Campus, (IKG-PTU, Kapurthala), Ferozepur, India	6	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85094884812&doi=10.1007%2fs11082-020-02616-x&partnerID=40&md5=7b8aca721ce58e1715de8ecd8472b218
2519	Magnetic characterization of Nickel-Zinc spinel ferrites along with their microwave characterization in Ku band	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086067981&doi=10.1016%2fj.immm.2020.167052&partnerID=40&md5=1d691fdf971f1877da99b6ea9914aa3b

2520	Luliconazole vesicular based gel formulations for its enhanced topical delivery	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Microbiology, Government Medical College, Amritsar, Punjab, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074730906&doi=10.1080%2f08982104.2019.1682602&partnerID=40&md5=c94548e92b630ede44388acc56562ac0
2521	Ultra-sensitive electrochemical sensors based on self-assembled chelating dithiol on gold electrode for trace level detection of copper(II) ions	Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081259543&doi=10.1016%2fs1277-019-06870-4&partnerID=40&md5=f448e036bf1f33fe63fc1400a586d1f9
2522	Cloud-Fog based framework for drought prediction and forecasting using artificial neural network and genetic algorithm	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070805526&doi=10.1080%2f0952813X.2019.1647563&partnerID=40&md5=954870e9e83dc6fb2078a488a5d57c54
2523	Growth of bone like hydroxyapatite and cell viability studies on CeO2 doped CaO–P2O5–MgO–SiO2 bioceramics	Physics Department, GNDU, Amritsar, India; Biotechnology Department, GNDU, Amritsar, India; Botanical and Environmental Sciences Department, GNDU, Amritsar, India; NGHRI, PU, Chandigarh, India	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076832112&doi=10.1016%2fi.matchemphys.2019.122352&partnerID=40&md5=b56c2ff9e6f1fa5eb3f3a00bc35473c
2524	Modeling and Performance Analysis of 400 Gbps CO-OFDM Based Inter-satellite Optical Wireless Communication (IsOWC) System Incorporating Polarization Division Multiplexing with Enhanced Detection	Electronics and Communication Engineering Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074502634&doi=10.1007%2fs11277-019-06870-5&partnerID=40&md5=05d0208188224d83a98e6bf603aebbee
2525	Butanol Extract of Tinospora cordifolia Ameliorates Cognitive Deficits Associated with Glutamate-Induced Excitotoxicity: A Mechanistic Study Using Hippocampal Neurons	Medical Biotechnology Lab, Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074006558&doi=10.1007%2fs12017-019-08566-2&partnerID=40&md5=25aa0cd78e55d18f2882ed4414ad51c5
2526	4x20gbit/s-40GHzOFDM based radio over FSO transmission link incorporating hybrid wavelength division multiplexing-mode division multiplexing of LG and HG modes with enhanced detection	Department of Engineering and Technology, Guru Nanak Dev University, Regional Campus, Jalandhar, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087658496&partnerID=40&md5=65cddc97a6b9fd39a8b156b23913312
2527	40Gbit/s-80Ghz hybrid MDM-OFDM-multibeam based RoFSO transmission link under the effect of adverse weather conditions with enhanced detection	Department of Engineering and Technology, Guru Nanak Dev University, Regional Campus, Jalandhar, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084355208&partnerID=40&md5=e9db7b05fb7bd895c46b531f77388e70
2528	Thiazole-5-carboxylic acid derivatives as potent xanthine oxidase inhibitors: design, synthesis, in vitro evaluation, and molecular modeling studies	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; TERI-Deakin Nanobiotechnology Centre, The Energy and Resources Institute, TERI Gram, Gual Pahari, Gurugram, Haryana 122001, India	9	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074712522&doi=10.1007%2fs00044-019-02461-y&partnerID=40&md5=7b27def90c9c083a83d96fc3fefec90f
2529	Bimetallic Implanted Plasmonic Photoanodes for TiO2 Sensitized Third Generation Solar Cells	Department of Physics, Guru Nanak Dev University, Amritsar, 143 005, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084394291&doi=10.1038%2fs41598-020-64653-6&partnerID=40&md5=5c9670d47a38ab89f1a100dafa591d23
2530	Solubilization of hydrophobic drugs clozapine and oxcarbazepine in the lower and higher molecular weight pluronic mixed micelles-a physicochemical, in vitro release and in vitro anti-oxidant study	Department of Chemistry, UGC-Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India; Manchester Metropolitan University, Faculty of Science and Engineering, Division of Chemistry and Environmental Science, John Dalton Building, Chester Street, Manchester, M15GD, United Kingdom; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India; School of Engineering, Newcastle University, Merz Court, Newcastle upon Tyne, NE17RU, United Kingdom; Department of Polymer Science and Engineering, University of Massachusetts, Amherst, United States	6	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089386578&doi=10.1016%2fi.molliq.2020.113816&partnerID=40&md5=c06972afe62dc74514f25e90c94162f3
2531	Development, characterization, and biocompatibility of zinc oxide coupled starch nanocomposites from different botanical sources	Department of Food Science and Technology, Chaudhary Devi Lal University, Sirsa, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; Department of Food Science and Technology, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India; School of Bioengineering and Food Technology, Shoolini University of Biotechnology and Management Sciences, Bajhol, PO Sultanpur, Distt. Solan, HP 173229, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086735701&doi=10.1016%2fi.ijbiomac.2020.06.125&partnerID=40&md5=a974721d589c5df2bffe2138545a0bed
2532	Comparison of structural, physical and optical properties of Na2O-B2O3 and Li2O-B2O3 glasses to find an advantageous host for CeO2 based optical and photonic applications	P.G. Department of Physics, Khalsa College, Amritsar, 143002, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; P.G.Department of Physics, Lyallpur Khalsa College, Jalandhar, 144001, India	7	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087592365&doi=10.1016%2fi.inoncrsol.2020.120268&partnerID=40&md5=da308c9e97a313a1ac22195b2f6053a5

2533	Design, synthesis, and anti-proliferative evaluation of 1: H -1,2,3-triazole grafted tetrahydro-β-carboline-chalcone/ferrocenylchalcone conjugates in estrogen responsive and triple negative breast cancer cells	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; School of Molecular and Cell Biology, University of the Witwatersrand, Private Bag 3 Wits-2050, Johannesburg, South Africa; School of Chemistry and Physics, University of KwaZulu-Natal, P/Bag X54001 Westville, Durban, South Africa	8	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087789238&doi=10.1039%2fd0nj00879f&partnerID=40&md5=268087849bfbb83c403d8b9198f1cb92
2534	Biocontrol potential of chitinases produced by newly isolated Chitinophaga sp. S167	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department cum National Centre for Human Genome Studies and Research, Panjab University, Chandigarh, India	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086356189&doi=10.1007%2fs11274-020-02864-9&partnerID=40&md5=70dea5e522cb32b4e3712cb937685ba1
2535	Discovery and Expression of Thermostable LPMOs from Thermophilic Fungi for Producing Efficient Lignocellulolytic Enzyme Cocktails	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department Engineering Technology, Biotechnology Program, College of Technology, University of Houston, Houston, TX 77004, United States; Center for Structural and Functional Genomics, Concordia University, 7141 Sherbrooke Street West, Montreal, QC H4B 1R6, Canada	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075950672&doi=10.1007%2fs12010-019-03198-5&partnerID=40&md5=732fe6f19fddf98de59ba3f69cf3edec
2536	Determinants of farmers’ decision to adopt solar powered pumps	University Business School, Guru Nanak Dev University, Amritsar, India; Punjab School of Economics, Guru Nanak Dev University, Amritsar, India	4	2020	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078902322&doi=10.1108%2fjjesm-04-2019-0022&partnerID=40&md5=e7c15d60026ac3abf4dce8247fcd5a7
2537	Using miRNAs as diagnostic biomarkers for male infertility: Opportunities and challenges	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084167321&doi=10.1093%2fmolehr%2fgaaa016&partnerID=40&md5=c2c66fbbd6aee17baad23595d72de8d3
2538	Structure of bismuth tellurite and bismuth niobium tellurite glasses and Bi2Te4O11 anti-glass by high energy X-ray diffraction	Department of Physics, Guru Nanak Dev University, Amritsar- Punjab, 143005, India; Deutsches Elektronen-Synchrotron DESY, Notkestrasse 85, Hamburg, 22607, Germany	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083374512&doi=10.1039%2fd0ra01422b&partnerID=40&md5=c47efbd4aaf94df31466dc7e4b644013
2539	A perylene diimide-based near-IR ratiometric sensor for detection of Cu2+ ions: Ensemble for discrimination of CN- and S2- ions	Department of Chemistry, UGC Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143 005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079689571&doi=10.1039%2fc9ay02726b&partnerID=40&md5=10891d5ffa2bba74e5aa11505429b5c7
2540	Antioxidant, antiproliferative and apoptosis-inducing efficacy of fractions from cassia fistula l. Leaves	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; School of Pharmaceutical Sciences, Lovely Professional University, Punjab, 144411, India; Natural Product Chemistry and Process Development division, CSIR-IHBT, Palampur, 176061, India; State Key Laboratory of Subtropical Silviculture, Zhejiang A&F University, Hangzhou, 311300, China; Department of Agriculture, Food and Environment, University of Pisa, Pisa, 56124, Italy; Interdepartmental Research Center Nutrafood “Nutraceuticals and Food for Health”, University of Pisa, Pisa, 56124, Italy; CIRSEC, Centre for Climatic Change Impact, University of Pisa, Pisa, 56124, Italy; Department of Plant Physiology, Faculty of Agrobiological and Food Resources, Slovak University of Agriculture, Nitra, 94976, Slovakia; Department of Botany and Plant Physiology, Faculty of Agrobiological, Food and Natural Resources, Czech University of Life Sciences, Prague, 16500, Czech Republic	12	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079873474&doi=10.3390%2fantiox9020173&partnerID=40&md5=297b46d8fcc1cd95d3571705892f349a
2541	Remote monitoring of physical and mental state of 2019-nCoV victims using social internet of things, fog and soft computing techniques	Deptt. of CSA, DAVU, Jalandhar, India; Deptt. of CS, GNDU, Amritsar, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086721690&doi=10.1016%2fj.cmpb.2020.105609&partnerID=40&md5=9978ef34d94ed87f788fbbc962d45fd2
2542	Diversity in Grain, Flour, Amino Acid Composition, Protein Profiling, and Proportion of Total Flour Proteins of Different Wheat Cultivars of North India	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; Department of Food Technology, Eternal University, Baru Sahib, Himachal Pradesh, India; Multidisciplinary Research Unit, Government Medical College, Amritsar, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091414372&doi=10.3389%2ffnut.2020.00141&partnerID=40&md5=9c5a58f3dafa6dc4a4fc0357436456d

2543	Solid-state fermentation of lentil (<i>Lens culinaris</i> L.) with <i>Aspergillus awamori</i> : Effect on phenolic compounds, mineral content, and their bioavailability	Department of Food Science and Technology, Chaudhary Devi Lal University, Sirsa, India; Department of Energy and Environmental Sciences, Chaudhary Devi Lal University, Sirsa, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; Department of Food Technology and Nutrition, Lovely Professional University, Jalandhar, India; Department of Biotechnology, Chaudhary Devi Lal University, Sirsa, India	8	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087991711&doi=10.1002%2fieg3.37&partnerID=40&md5=d4df5005ab6bdcec5c87448055196c22
2544	Perylene diimides: Will they flourish as reaction-based probes?	Department of Chemistry, Ugc Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Mg Dav College, Bathinda, 151001, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089675671&doi=10.1039%2fd0ay00966k&partnerID=40&md5=effbcc9d472370ac8ca65c5ea117cb04
2545	Photoredox-Mediated Synthesis of Functionalized Sulfoxides from Terminal Alkynes	AcSIR and Natural Product Microbes, CSIR, Indian Institute of Integrative Medicine, Jammu, Jammu and Kashmir, 180001, India; Department of Chemistry, University of Kashmir, Srinagar, Jammu and Kashmir, 190006, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, India	6	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087725871&doi=10.1021%2facs.orglett.0c02055&partnerID=40&md5=147844769a2e8b81f3ab2db214ea2845
2546	Simultaneous measurements of radon, thoron and their progeny for inhalation dose assessment in indoors of Srinagar, J&K, India	Department of Physics, University of Kashmir, Srinagar, J&K 190006, India; Radiation Safety Systems Division, Health Physics Division, Bhabha Atomic Research Centre, Trombay, Mumbai 400085, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085744313&doi=10.1007%2fs10967-020-07233-2&partnerID=40&md5=cc3a429b26e287e2865451b2dc5fc125
2547	A conceptual framework for identifying key employee branding dimensions: A study of hospitality industry	University School of Financial Studies, Guru Nanak Dev University, Amritsar, Punjab, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085565563&doi=10.1016%2fj.jik.2019.08.003&partnerID=40&md5=8ac0c065f988ee33f4ac3d17bf7b52c6
2548	A Broad Temperature Active Lipase Purified From a Psychrotrophic Bacterium of Sikkim Himalaya With Potential Application in Detergent Formulation	Biotechnology Division, CSIR-Institute of Himalayan Bioresource Technology, Palampur, India; Academy of Scientific and Innovative Research (AcSIR), CSIR-Institute of Himalayan Bioresource Technology, Palampur, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, India	6	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087666757&doi=10.3389%2ffbioe.2020.00642&partnerID=40&md5=762bf8ddb21548b07812c3e0bde4b314
2549	Synthesis of single phase MgTiO ₃ and influence of Sn ⁴⁺ substitution on its structural, dielectric and electrical properties	Department of Electronic Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074433494&doi=10.1016%2fj.jallcom.2019.152679&partnerID=40&md5=c9945090a187a18ce5410cab0811ab5d
2550	Ag ion implanted TiO ₂ photoanodes for fabrication of highly efficient and economical plasmonic dye sensitized solar cells	Department of Physics, Guru Nanak Dev University, Amritsar, 143 005, India; Thin Film Devices Section, Technical Physics Division, Bhabha Atomic Research Centre, Mumbai, 400 085, India; National Physical Laboratory, New Delhi, 110012, India; Inter University Accelerator Centre, New Delhi, 110 0067, India	10	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077306089&doi=10.1016%2fj.cplett.2019.137070&partnerID=40&md5=a90fc5fb7453b410d4bf018de1e58bd5
2551	Quality controlled ECG data compression based on 2D discrete cosine coefficient filtering and iterative JPEG2000 encoding	Department of Electronics and Communication Engineering, Dr B R Ambedkar National Institute of Technology, Jalandhar, PIN: 144011, India; Department of Electronics and Communication Engineering, Dumka Engineering College, Dumka, Jharkhand PIN: 814101, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, PIN: 144007, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075858218&doi=10.1016%2fj.measurement.2019.107252&partnerID=40&md5=d8edb55b37039d9f8c922954c0ba399a
2552	Solid-state fermentation of pearl millet with <i>Aspergillus oryzae</i> and <i>Rhizopus azygosporus</i> : effects on bioactive profile and DNA damage protection activity	Department of Food Science & Technology, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India; Department of Biotechnology, Chaudhary Devi Lal University, Sirsa, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; National Centre for Integrated Pest Management, Pusa Campus, New Delhi, India	6	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073962948&doi=10.1007%2fs11694-019-00277-3&partnerID=40&md5=48691fefa293c1e79090497a9da24d98
2553	Opposition-based Harris Hawks optimization algorithm for feature selection in breast mass classification	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Gurdaspur, Punjab 143521, India; Department of Computer Science and Engineering, DAV University, Jalandhar, Punjab 144012, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083671082&doi=10.1080%2f09720502.2020.1721670&partnerID=40&md5=b2e003f3e0c3c40c09e368973dfa2c2f
2554	A sensitive H ₂ S sensor using MoS ₂ /WO ₃ composite	Department of Physics, Guru Nanak Dev University Amritsar143005, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089154808&doi=10.1016%2fj.matpr.2019.12.104&partnerID=40&md5=52feee32c367a7638b1c4b711dfc7495

2555	Modeling and performance evaluation of underwater wireless optical communication system in the presence of different sized air bubbles	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	6	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096409595&doi=10.1007%2fs11082-020-02638-5&partnerID=40&md5=e98f9784cc5121dbbea1da0a93f7224e
2556	Functional, thermal and rheological behavior of fenugreek (<i>Trigonella foenum-graecum</i> L.) gums from different cultivars: A comparative study	Department of Food Science and Technology, Chaudhary Devi Lal University, Sirsa, India; Department of Food Science and Technology, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Food Technology and Nutrition, Lovely Professional University, Jalandhar, India; Department of Energy and Environmental Sciences, Chaudhary Devi Lal University, Sirsa, India	6	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085394166&doi=10.1016%2fi.iibiomac.2020.05.094&partnerID=40&md5=45089638395f189222f294bab60bbf41
2557	Recent advances in the catalytic synthesis of 3-aminooxindoles: An update	Post-Graduate Department of Chemistry, Khalsa College Amritsar, Punjab, India; Department of Chemistry, U.G.C. Centre of Advance Study-II, Guru Nanak Dev University, Amritsar Punjab, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087468231&doi=10.1039%2fd0ob00777c&partnerID=40&md5=1679d134bb907c05ecb74600eb9006a0
2558	Performance analysis of mode division multiplexing based free space optics system incorporating on-off keying and polarization shift keying under dynamic environmental conditions	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, India; Division of Computational Physics, Institute for Computational Science, Ton Duc Thang University, Ho Chi Minh City, Viet Nam; Faculty of Electrical and Electronics Engineering, Ton Duc Thang University, Ho Chi Minh City, Viet Nam	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079369261&doi=10.1007%2fs11276-020-02275-6&partnerID=40&md5=0093c559d576618c8bf22dd9e6eb1305
2559	Modifying the dough mixing behavior, protein & starch digestibility and antinutritional profile of minor millets by sprouting	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076582709&doi=10.1016%2fi.iibiomac.2019.10.225&partnerID=40&md5=de9693511a6d1a67b0449412dbc46479
2560	Deep learning based drought assessment and prediction framework	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India; Department of Computer Science & Informatics, Central University of Himachal Pradesh, Dharamshala, Himachal Pradesh, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082534032&doi=10.1016%2fi.ecoinf.2020.101067&partnerID=40&md5=904db73ff5c44aaddffd70cb2aa10bc7
2561	Electricity nanogenerator from egg shell membrane: A natural waste bioproduct	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Mechanical Engineering, Guru Nanak Dev University, Amritsar, Punjab, India	4	2020	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079732038&doi=10.1080%2f15435075.2020.1727482&partnerID=40&md5=32545dbf641eb36d0ba38764928f8e28
2562	Ion-acoustic cnoidal waves with the density effect of spin-up and spin-down degenerate electrons in a dense astrophysical plasma	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078091667&doi=10.1515%2fzna-2019-0140&partnerID=40&md5=e746e9da02f1e784a8e825bd72a68c47
2563	Pyridoanthrone-based chromo-fluorogenic amphiphiles for selective CN- detection and their bioimaging application	Department of Bionanotechnology, Hanyang University, Ansan, 155-88, South Korea; Department of Human Genetics, Guru Nanak Dev University, Punjab, Amritsar-143005, India; Department of Chemistry, University of Wisconsin-Madison, Madison, WI 53706, United States; Department of Chemistry, UGC Center for Advanced Studies, Guru Nanak Dev University, Punjab, Amritsar-143005, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075788006&doi=10.1016%2fi.snb.2019.127396&partnerID=40&md5=557a9a092ab8c93df3392feb07cc7e38
2564	A multifunctional perylenediimide-based dual-analyte chemodosimeter for specific and rapid detection of H2S and Pd0 in water, biofluids, live cells and solid state	Department of Chemistry, UGC Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Chemical Sciences, IK Gujral Punjab Technical University, Kapurthala, 144601, India	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075349624&doi=10.1016%2fi.ipphotochem.2019.112189&partnerID=40&md5=2516724e55931951fe29c8fc62bdfce
2565	COVID-19 and Chinese Global Health Diplomacy: Geopolitical Opportunity for China's Hegemony?	Department of South and Central Asian Studies, School of International Studies, Central University of Punjab, Bathinda, Punjab, India; Department of Law, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092519508&doi=10.1177%2f0976399620959771&partnerID=40&md5=30f850a80476b0ffccd0b9f421283da5

2566	Hybrid molecules based on 1,3,5-triazine as potential therapeutics: A focused review	UGC-Sponsored Centre for Advanced Studies, Department of Chemistry, Guru Nanak Dev University, Amritsar, India; Department of Chemistry, University of Petroleum & Energy Studies, Dehradun, India; Department of Chemistry, Uttarakhand University, Dehradun, India; Department of Pharmaceutics and Pharmaceutical Technology, Faculty of Pharmacy, Yarmouk University, Irbid, Jordan; School of Pharmacy, Suresh Gyan Vihar University, Jaipur, India; School of Pharmaceutical Sciences, Shoolini University of Biotechnology and Management Sciences, Solan, India; Chitkara College of Pharmacy, Chitkara University Punjab, India; Departamento de Organica, facultad de Quimica y de Farmacia, Pontificia Universidad Catolica de Chile, Santiago, Chile; Department of Pharmacy, Faculty of Pharmaceutical Sciences, University of Sao Paulo, Brazil; School of Pharmacy and Pharmaceutical Science, Ulster University, Coleraine, United Kingdom; Department of Life Sciences, School of Pharmacy, International Medical University, Kuala Lumpur, Malaysia; Discipline of Pharmacy, Graduate School of Health, University of Technology Sydney, Sydney, NSW, Australia; Priority Research Centre for Healthy Lungs, Hunter Medical Research Institute (HMRI) & School of Biomedical Sciences and Pharmacy, University of Newcastle, Callaghan, NSW, Australia; Centre for Inflammation, Centenary Institute, Royal Prince Alfred Hospital, Sydney, NSW, Australia	14	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087217639&doi=10.1002%2fddr.21704&partnerID=40&md5=ca5706403ff54b99f1befbf41fe52923
2567	Plant Cyclophilins: Multifaceted Proteins With Versatile Roles	Department of Biotechnology, Guru Nanak Dev University, Amritsar, India; Department of Bioinformatics, Hans Raj Mahila Maha Vidyalaya, Jalandhar, India; William Harvey Heart Centre, Queen Mary University of London, London, United Kingdom	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85095704133&doi=10.3389%2ffpls.2020.585212&partnerID=40&md5=e8b79803821576529a12be388b933ba4
2568	A review on morpho-physiological traits of plants under phthalates stress and insights into their uptake and translocation	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085352844&doi=10.1007%2fs10725-020-00625-0&partnerID=40&md5=3cbf2d86d5dbbf1a0ff5dcde2556db0b
2569	Phenolic compounds in potato (Solanum tuberosum L.) peel and their health-promoting activities	P.G. Department of Biotechnology, Khalsa College, Amritsar, Punjab 143002, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073769540&doi=10.1111%2fjifs.14361&partnerID=40&md5=34c3476fd6fb9b052f770f36cdcf772
2570	Biochemical markers for prolongation of the acute stress of triclosan in the early life stages of four food fishes	Aquatic Toxicology Lab, Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Plant Stress Physiology Lab, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; State Key Laboratory of Subtropical Silviculture, Zhejiang A & F University, Hangzhou, 311300, China	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078069684&doi=10.1016%2fj.chemosphere.2020.125914&partnerID=40&md5=3f181f0d814884559e86a14110b1310d
2571	2-(2'-Hydroxyphenyl)benzothiazole derivatives: Emission and color tuning	Department of Chemistry, UGC Centre of Advanced Study, Guru Nanak Dev University, Amritsar, 143 005, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077916572&doi=10.1016%2fj.dyepig.2020.108198&partnerID=40&md5=8c08010353b3397da9c823528133abb0
2572	Structural and electrical characterization of semiconducting xCuO-(100-x)TeO2 glasses	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Centre for Energy Research, Konkoly-Thege street 29-33, Budapest, 1121, Hungary	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081381238&doi=10.1016%2fj.inoncrvsol.2020.119884&partnerID=40&md5=2be955a63c60475f70e6979ca5e2c103
2573	Advanced lightweight multi-factor remote user authentication scheme for cloud-IoT applications	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061369768&doi=10.1007%2fs12652-019-01225-1&partnerID=40&md5=a54c9a92dfa98e959e3510c3fd6a52c2
2574	Ten years of disaster management and use of ICT: a scientometric analysis	Guru Nanak Dev University, Regional Campus, Gurdaspur, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073929772&doi=10.1007%2fs12145-019-00408-w&partnerID=40&md5=a9732069ad4ac03dcbde6bf7d37bdfce
2575	An epigrammatic status of the 'Azole'-based antimalarial drugs	Department of Chemistry, University of Petroleum and Energy Studies, Dehradun, 248007, India; Department of Chemistry, Uttarakhand University, Dehradun, 248007, India; UGC Sponsored Centre for Advanced Studies, Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083236511&doi=10.1039%2fc9md00479c&partnerID=40&md5=e25524a9fcca887e30bd4ebd62430a8d

2576	Anti-nociceptive and anti-inflammatory effect of imperatorin: evidences for involvement of COX-2, iNOS, NFkB and inflammatory cytokines	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074052650&doi=10.1080%2f00207454.2019.1667789&partnerID=40&md5=6831449b67b9500ed239a2a43ba1251f
2577	Effect of gamma irradiation on thermoluminescence studies of LiF:Sm3+,Dy3+nanophosphor	Department of Applied Sciences, I.K. Gujral Punjab Technical University, Kapurthala, India; Swami Premanand Mahavidyalaya, Mukerian, India; Beant College of Engineering and Technology, Gurdaspur, India; Government Degree College Boys, Kathua, India; Department of Physics, Guru Nanak Dev University, Amritsar, India; Centre for Materials Science and Engineering, National Institute of Technology Hamirpur, Hamirpur, India	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085272234&doi=10.1680%2fjemmr.18.00101&partnerID=40&md5=ddfca468b36ce002d152c1be607d4d9a
2578	Seed priming with jasmonic acid counteracts root knot nematode infection in tomato by modulating the activity and expression of antioxidative enzymes	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Indian Institute of Integrative Medicine (CSIR-IIIM), Council of Scientific and Industrial Research, Canal Road, Jammu, 180 001, India; State Key Laboratory of Subtropical Silviculture, Zhejiang A&F University, Hangzhou, 311300, China; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botany and Microbiology, College of Science, King Saud University, Riyadh, 11451, Saudi Arabia; Department of Botany, S.P. College SrinagarJammu and Kashmir 190001, India	9	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077838947&doi=10.3390%2fbiom10010098&partnerID=40&md5=99e21d6e4ab2f3057beb55653f515240
2579	Monitoring geothermal springs and groundwater of Pir Panjal, Jammu and Kashmir, for radon contamination	Department of Physics, University of Kashmir, Hazratbal, J&K 190006, India; Radiation Safety Systems Division, Health Physics Division, Bhabha Atomic Research Centre, Trombay, Mumbai, 400085, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	6	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85094180821&doi=10.1007%2fs10967-020-07451-8&partnerID=40&md5=f2c4582a577e7bba162c7237f81f5332
2580	Psychological trauma among the healthcare professionals dealing with COVID-19	MYAS GNDU Department of Sports Sciences and Medicine, Guru Nanak Dev University, Amritsar, India; Department of Computer Engineering & Technology, Guru Nanak Dev University, Amritsar, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087308829&doi=10.1016%2fajp.2020.102241&partnerID=40&md5=8bd530222c024beefb3c5cefea457d4d
2581	An Improved Task Allocation Strategy in Cloud using Modified K-means Clustering Technique	I. K. Gujral Punjab Technical University, Kapurthala, Punjab, India; Khalsa College of Engineering & Technology, Amritsar, Punjab, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85080085778&doi=10.1016%2fjei.2020.02.001&partnerID=40&md5=38a9f494478e9f5a68f9739b3ac8d3d7
2582	Kidney bean (Phaseolus vulgaris) starch: A review	Department of Food Science and Technology, Chaudary Devi Lal University, Sirsa, India; Department of Food Science and Technology, Maharaja Ranjit Singh Punjab Technical University, Bhathinda, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089259975&doi=10.1002%2fleg3.52&partnerID=40&md5=6666e478ba04f4ba2dd0e99a971a6e81
2583	Cadmium Accumulation Potential of Brassica Species Grown in Metal Spiked Loamy Sand Soil	Department of Soil Science, Punjab Agricultural University, Ludhiana, India; Department of Soil and Water Conservation, Government of Punjab, India; Department of Zoology, Khalsa College Amritsar, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084258145&doi=10.1080%2f15320383.2020.1758031&partnerID=40&md5=5f6347626584158247bcb1ede99289a
2584	Thermosensitive injectable hydrogel containing carboplatin loaded nanoparticles: A dual approach for sustained and localized delivery with improved safety and therapeutic efficacy	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, 143005, India; Cancer Pharmacological Division, CSIR-Indian Institute of Integrative Medicine, Jammu, 180001, India	9	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086923405&doi=10.1016%2fj.jddst.2020.101817&partnerID=40&md5=0d98e4933802e4a3be78600d1ec2833d
2585	An innovative approach of priming lignocellulosics with lytic polysaccharide mono-oxygenases prior to saccharification with glycosyl hydrolases can economize second generation ethanol process	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082507479&doi=10.1016%2fj.biortech.2020.123257&partnerID=40&md5=c79c05b4f6c0ad39d1c6dfcce77d422f

2586	Role of nanocarriers in photodynamic therapy	Department of Pharmaceutics, School of Pharmaceutical Education and Research, Jamia Hamdard, New Delhi, 110062, India; Department of Pharmaceutics, Faculty of Pharmacy, King Abdulaziz University, Jeddah, Saudi Arabia; Department of Pharmaceutics, Khalsa College of Pharmacy, Amritsar, Punjab 143001, India	7	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084354086&doi=10.1016%2fi.pdpdt.2020.101782&partnerID=40&md5=a8da9886ffad1c2982197c38455968a9
2587	Comparative evaluation of physicochemical, nutritional and molecular interactions of flours from different cereals as affected by germination duration	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077245975&doi=10.1007%2fs11694-019-00364-5&partnerID=40&md5=06a8affa574439453f80b856aba5b321
2588	Antimicrobial Colloidal Complexes of Lysozyme with Bio-Based Surface Active Ionic Liquids in Aqueous Medium	Department of Chemistry, UGC-Centre for Advance Studies - II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084379763&doi=10.1021%2facs.ipcb.0c00339&partnerID=40&md5=46ad43b4429b84392199e3b65937e88f
2589	Animal Hair-Based Triboelectric Nanogenerator (TENG): A Substitute for the Positive Polymer Layer in TENG	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India; Department of Mechanical Engineering, Guru Nanak Dev University, Amritsar, Punjab, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081635510&doi=10.1007%2fs11664-020-08031-y&partnerID=40&md5=d1ab0069828170a98939f09762fed56e
2590	Antibiofilm, antiproliferative, antioxidant and antimutagenic activities of an endophytic fungus <i>Aspergillus fumigatus</i> from <i>Moringa oleifera</i>	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, 143005, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082745814&doi=10.1007%2fs11033-020-05394-7&partnerID=40&md5=13cb0c8e58f7528f81a82cb6cc35d841
2591	Structure, optical and electrical properties of sol-gel derived Zn _{1.5} xSn _{1.5} -xO ₄ nanostructured films for optoelectronic applications	Semiconductors Laboratory, Department of Physics, DAV University, Jalandhar, 144012, India; Department of Physics and Astronomy, Botswana International University of Science and Technology (BIUST), Palapye, Botswana; Department of Physics, GND University, Amritsar, 143005, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079882803&doi=10.1016%2fi.tsf.2020.137871&partnerID=40&md5=d373167e1c70010972eec02cc10e44fd
2592	Hybrid binary Sine Cosine Algorithm and Ant Lion Optimization (SCALO) approaches for feature selection problem	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India; Department of Computer Science and Engineering, DAV University, Jalandhar, Punjab, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081383020&doi=10.1142%2fS2047684119500210&partnerID=40&md5=e3522130a3cdb3508ddf8512f296c4c6
2593	Quantifying reusability of software components using hybrid fuzzy analytical hierarchy process (FAHP)-Metrics approach	Department of PGP, Indian Institute of Management, Amritsar, Punjab 143105, India; Department of Electronics & Communication Engineering, Guru Nanak Dev University, RC, Jalandhar, Punjab 144007, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076830637&doi=10.1016%2fj.asoc.2019.105997&partnerID=40&md5=8b52f90818568bdb949b9601afabbd4c
2594	Electromagnetic Wave Absorption Properties of La-Doped Strontium M-Type Hexagonal Ferrite in a 18–40 GHz Frequency Range	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073945571&doi=10.1007%2fs11664-019-07594-9&partnerID=40&md5=ffd473a55bcff131bd789466a0ad24c3
2595	Tartaric Acid Mediated Cr Hyperaccumulation and Biochemical alterations in seedlings of <i>Hordeum vulgare</i> L.	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Botany, DAV University, Jalandhar, 144012, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064053860&doi=10.1007%2fs00344-019-09959-0&partnerID=40&md5=26cad00250fd0fcaa65d84496fc64ba7
2596	Functionalized Naphthalimide-4-aminoquinoline Conjugates as Promising Antiplasmodials, with Mechanistic Insights	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Medicine, University of California, San Francisco, CA 94115, United States; Department of Industrial Chemistry, Federal University of Oye-Ekiti, Oye, 371104, Nigeria; School of Chemistry and Physics, University of KwaZulu-Natal, Durban, Westville, 4000, South Africa	7	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078398218&doi=10.1021%2facsmedchemlett.9b00521&partnerID=40&md5=5fe16dccd1124cb48bd099bbdbbee6e8
2597	Structure of strontium tellurite glass, anti-glass and crystalline phases by high-energy X-ray diffraction, reverse Monte Carlo and Rietveld analysis	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Deutsches Elektronen-Synchrotron DESY, Notkestrasse 85, Hamburg, 22607, Germany; Department of Chemistry and Process and Resource Engineering, University of Cantabria, Santander, 39005, Spain	7	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079571761&doi=10.1107%2fS2052520620000025&partnerID=40&md5=523849bd2a51e56bf43536034447b62a
2598	A Fog-Cloud based cyber physical system for Ulcerative Colitis diagnosis and stage classification and management	Baba Gulam Shah Badshah University, Rajouri, J&K, India; Guru Nanak Dev University, Regional Campus Gurdaspur Punjab, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075315081&doi=10.1016%2fi.micpro.2019.102929&partnerID=40&md5=4f5eeb968db38edd7f94ba4dc5d1a86c

2599	Contamination of vegetables with heavy metals across the globe: hampering food security goal	Department of Environmental Sciences, Chandigarh University, Mohali, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071427282&doi=10.1007%2fs13197-019-04053-5&partnerID=40&md5=a463bc17e299cf425800d03b49419a13
2600	Orbital hybridization-induced band offset phenomena in Ni: XCd1-xO thin films	Inter University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India; Condensed Matter Theory Group, Department of Physics and Astronomy, Uppsala University, Box 516, Uppsala, 77120, Sweden; Department of Physics, Guru Nanak Dev University, Amritsar, India; South Ural State University, Chelyabinsk, 454080, Russian Federation	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077403879&doi=10.1039%2fc9nr05184h&partnerID=40&md5=e87e5b4ce8ffcd0192017d2d06c65216
2601	A structural equation modeling analysis of factors driving customer purchase intention towards solar water heater	University Business School, Guru Nanak Dev University, Amritsar, India; Mittal School of Business, Lovely Professional University, Phagwara, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089383486&doi=10.1108%2fSASBE-05-2020-0069&partnerID=40&md5=c01eafa4c91071b693f6d0312267d232
2602	Internet of Things (IoT) and Deep Neural Network-Based Intelligent and Conceptual Model for Smart City	GNDU Regional Campus, Jalandhar, India; R&D Center of Simulation and Virtualization, Duy Tan University, Danang, Viet Nam; Graduate School, Duy Tan University, Danang, Viet Nam	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075688196&doi=10.1007%2f978-981-32-9186-7_30&partnerID=40&md5=bfb84819cb00c11decf1acac5a1c45a1
2603	Structural, magnetic, dielectric, microwave absorption, and optical characterization of Ni 0.1Co 0.9(MnZr) xFe 2 - 2 xO 4/ Ba ySr 1 - yFe 12O 19 nanocomposites	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; School of Physics and Materials Science, Thapar University, Patiala, Punjab 147004, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075357397&doi=10.1007%2fs10854-019-02564-7&partnerID=40&md5=93892e35e360d35a7fe1b7e57c09b64a
2604	Prospecting the antimicrobial and antibiofilm potential of Chaetomium globosum an endophytic fungus from Moringa oleifera	Microbial Technology Laboratory, Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85095836052&doi=10.1186%2fs13568-020-01143-y&partnerID=40&md5=906d830c434294d38481a3da04558ad3
2605	Biomarkers for the toxicity of sublethal concentrations of triclosan to the early life stages of carps	Aquatic Toxicology Lab, Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Plant Stress Physiology Lab, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; State Key Laboratory of Subtropical Silviculture, Zhejiang A & F University, Hangzhou, 311300, China	6	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092548198&doi=10.1038%2fs41598-020-73042-y&partnerID=40&md5=b92416572776138cfcca53d3fe2009ef
2606	Telomere Maintenance Genes are associated with Type 2 Diabetes Susceptibility in Northwest Indian Population Group	Human Genetics Research Group, School of Biotechnology, Shri Mata Vaishno Devi University, Katra, J&K 182320, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	8	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083477571&doi=10.1038%2fs41598-020-63510-w&partnerID=40&md5=5614ad371d0326c4997c4a2f4e96defe
2607	A novel approach for particle swarm optimization-based clustering with dual sink mobility in wireless sensor network	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, 144007, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089703359&doi=10.1002%2fdac.4553&partnerID=40&md5=505f5ea2828f4e7a58039ddc3f5e545a
2608	Investigation of 340-Gbps terrestrial FSO link incorporating spectral-efficient DP-QPSK-PolSK hybrid modulation scheme	Guru Nanak Dev University, Department of Engineering and Technology, Regional Campus, Jalandhar, Punjab, India; Optiwave System Inc., Ottawa, Ontario, Canada; North-Eastern Hill University, Department of Electronics and Communication Engineering, Shillong, Meghalaya, India; University College of Engineering, Department of Physics, Ramanathapuram Campus, Tamil Nadu, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85097345768&doi=10.1117%2f1.OE.59.11.116106&partnerID=40&md5=5fef95bd5a4874db167107001bba0662
2609	Foliar application of 24-epibrassinolide improves growth, ascorbate-glutathione cycle, and glyoxalase system in brown mustard (Brassica juncea (L.) Czern.) under cadmium toxicity	Department of Biology, College of Science and Humanities, Prince Sattam bin Abdulaziz University, Al-Kharj, 11942, Saudi Arabia; Plant Stress Physiology Lab, Department of Botanical and Environment Sciences, Guru Nanak Dev University, Amritsar, 43005, India; Department of Pharmacognosy, College of Pharmacy, Prince Sattam bin Abdulaziz University, Al-Kharj, 11942, Saudi Arabia; Department of Botany, Faculty of Science, University of Agriculture Faisalabad, Faisalabad, 38000, Pakistan; Botany and Microbiology Department, College of Science, King Saud University, Riyadh, 11451, Saudi Arabia; Department of Botany, S.P. College Srinagar, Srinagar, Jammu and Kashmir 190001, India	8	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85095567031&doi=10.3390%2fplants9111487&partnerID=40&md5=9fcac5cc74128333f77922bdb1b3c86
2610	Hydrothermally synthesized heterostructures of In2O3/MWCNT as acetone gas sensor	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089390031&doi=10.1016%2fj.sna.2020.112240&partnerID=40&md5=63300127b2b07406f7a321e078c49de4

2611	New coumarin-benzotriazole based hybrid molecules as inhibitors of acetylcholinesterase and amyloid aggregation	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	11	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089340222&doi=10.1016%2fj.bmcl.2020.127477&partnerID=40&md5=2eef282f77b4ebd508b342e262a7369e
2612	Effect of cross-linking on physico-chemical, thermal, pasting, in vitro digestibility and film forming properties of Faba bean (<i>Vicia faba</i> L.) starch	Department of Food Science and Technology, Chaudhary Devi Lal University, Sirsa, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; Department of Food Science and Technology, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085038895&doi=10.1016%2fj.ijbiomac.2020.05.014&partnerID=40&md5=07fb056843b535fc36a55c6c76f52dae
2613	Association analysis of polymorphisms in LEP (rs7799039 and rs2167270) and LEPR (rs1137101) gene towards the development of type 2 diabetes in North Indian Punjabi population	Department of Human Genetics, Guru Nanak Dev University (GNDU), Amritsar, Punjab 143 005, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086470317&doi=10.1016%2fj.gene.2020.144846&partnerID=40&md5=6cdc185ba1d1ef09a31b1e991d508a4f
2614	Structural, optical, dielectric and transport properties of ball mill synthesized ZnO–V2O5 nano-composites	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083526647&doi=10.1016%2fj.molstruc.2020.128261&partnerID=40&md5=9f16eef6e30a16549c1c4c04bdb7e62
2615	Insights into the role of streptomyces hydrogenans as the plant growth promoter, photosynthetic pigment enhancer and biocontrol agent against meloidogyne incognita in solanum lycopersicum seedlings	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Botany and Microbiology Department, College of Science, King Saud University, Riyadh, 11451, Saudi Arabia; Department of Botany, S.P. College Srinagar, Jammu and Kashmir190001, India	8	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093901175&doi=10.3390%2fplants9091109&partnerID=40&md5=5d7ac60e7566a054cf5e2c035a1a97b
2616	Examination of hemocompatibility and corrosion resistance of electrical discharge-treated duplex stainless steel (DSS-2205) for biomedical applications	Department of Mechanical Engineering, Khalsa College of Engineering and Technology, Amritsar, 143001, India; Department of Mechanical Engineering, Beant College of Engineering and Technology, Gurdaspur, 143521, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089850934&doi=10.1007%2fs00339-020-03940-5&partnerID=40&md5=951e5962503af67c57d5c2ee520b06b0
2617	Antiproliferative and apoptogenic effects of Cassia fistula L. n-hexane fraction against human cervical cancer (HeLa) cells	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Post Graduate Department of Botany, Khalsa College, Amritsar, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086093242&doi=10.1007%2fs11356-020-08916-9&partnerID=40&md5=3ee7fb1d38cc364dfdbd9e87a3a6682b
2618	Photoluminescence and thermal properties of trivalent ion-doped lanthanum tellurite anti-glass and glass composite samples	Sensors and Glass Physics Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084605518&doi=10.1016%2fj.ilumin.2020.117375&partnerID=40&md5=27b699327a4d8cd341e74b10cfd6e35e
2619	Tinospora cordifolia attenuates high fat diet-induced obesity and associated hepatic and renal dysfunctions in rats	Medical Bio Medical Biotechnology Laboratory, Department of Biotechnology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084353399&doi=10.1016%2fj.phanu.2020.100189&partnerID=40&md5=36a05f8c5ddbeee46b88b59ac1ba2738
2620	Enhanced hydrolysis of hydrothermally and autohydrolytically treated sugarcane bagasse and understanding the structural changes leading to improved saccharification	Guru Nanak Dev University (GNDU), Grand Trunk Road, Amritsar, Punjab 143005, India; São Carlos Institute of Physics, University of São Paulo, Av. Trabalhador São-carlense, 400, Parque Arnold Schmidt, São Carlos, SP 13566-590, Brazil	7	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086712622&doi=10.1016%2fj.biombioe.2020.105639&partnerID=40&md5=58eadfd69bec6cf1a11e7a7e0ad013a5
2621	Structural, thermal and optical characterization of co-existing glass and anti-glass phases of xLa2O3-(100-x)TeO2 and 2TiO2-xLa2O3-(98-x)TeO2 systems	Sensors and Glass Physics Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry and Process & Resource Engineering, University of Cantabria, Cantabria, Santander 39005, Spain	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084574975&doi=10.1016%2fj.inoncrvsol.2020.120117&partnerID=40&md5=10c2737c6f2404202fa1302bb77fe3e6
2622	Synthesis and structural characterization of alumina nanoparticles	Department of Physics, Guru Nanak Dev University, Amritsar, India; Department of Chemistry & Biochemistry, Florida State University, Tallahassee, FL, United States	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084860852&doi=10.1080%2f01411594.2020.1765245&partnerID=40&md5=ca1c63249d9e2a68e1d49c2f6d49695a
2623	Changes in chemical properties and oxidative stability of refined vegetable oils during short-term deep-frying cycles	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; P.G. Department of Biotechnology, Khalsa College, Amritsar, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081030234&doi=10.1111%2fj.fip.14445&partnerID=40&md5=eef0ffd0ad5c6e44ad0f5daf81064bb8
2624	Complex permittivity, complex permeability and reflection loss of Co-Zr substituted La-Sr hexaferrites in 18–40 GHz frequency range	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078685488&doi=10.1016%2fj.immm.2020.166456&partnerID=40&md5=9c56009b48b0a7f06a08a1acbf794ea

2625	Soil properties changes earthworm diversity indices in different agro-ecosystem	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Post Graduate Department of Zoology, Khalsa College, Amritsar, Punjab, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084411858&doi=10.1186%2fs12898-020-00296-5&partnerID=40&md5=ac01924f0309af62462cc8dfff35814c
2626	Optical fog-assisted cyber-physical system for intelligent surveillance in the education system	Department of Computer Science & Engineering, Khalsa College of Engineering & Technology, Amritsar, India; Department of Computer Science & Engineering, Central University of Himachal Pradesh, Dharmshala, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083858911&doi=10.1002%2fcae.22240&partnerID=40&md5=e3899250451f37d0d4fa10621e8a9414
2627	Synthesis and: In vitro anti-proliferative evaluation of naphthalimide-chalcone/pyrazoline conjugates as potential SERMs with computational validation	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; School of Molecular and Cell Biology, University of Witwatersrand, Private Bag 3, Johannesburg, Wits, 2050, South Africa; School of Chemistry and Physics, University of Kwazulu Natal, P/Bag X54001, Westville, Durban, 4000, South Africa	8	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084301248&doi=10.1039%2fd0ra01822h&partnerID=40&md5=1819911ce0d021a1733c654cc12fee22
2628	Tailoring of Electromagnetic Absorption in Substituted Hexaferrites from 8.2 GHz to 12.4 GHz	Department of ECE, Sant Longowal Institute of Engineering and Technology, Longowal, Sangrur, Punjab, India; Department of ECE, Lovely Professional University, Phagwara, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Physics, Electronics and Space Science, University School of Sciences, Gujarat University, Ahmadabad, Gujarat, India; School of Materials Science and Engineering, University of Science and Technology, Beijing, 100083, China; Department of Physics, University of Memphis, Memphis, TN, United States; Department of ECE, Indian Institute of Technology Roorkee, Roorkee, India; Department of Physics, (LOCEM), Federal University of Ceará (UFC), Pici Campus, Fortaleza, Ceara, Brazil; Department of ECE, CT Institute of Engineering and Management Technology, Jalandhar, Punjab, India	11	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070805163&doi=10.1007%2fs11664-019-07498-8&partnerID=40&md5=c65f1a58a94e151d0ec547c59e9151c8
2629	Molecular Design and Synthesis of Ivermectin Hybrids Targeting Hepatic and Erythrocytic Stages of Plasmodium Parasites	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Instituto de Medicina Molecular, Faculdade de Medicina da Universidade de Lisboa, Av. Prof. Egas Moniz, Lisboa, 1649-028, Portugal	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081153199&doi=10.1021%2facs.imedchem.0c00033&partnerID=40&md5=f9029184524b63b480e604b36133ed17
2630	Cloud-Centric IoT-Based Green Framework for Smart Drought Prediction	Department of Computer Science and Engineering, Guru Nanak Dev University, Gurdaspur, 143521, India; Department of Computer and Informatics, Central University of Himachal Pradesh, Dharamshala, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079819321&doi=10.1109%2fJIoT.2019.2951610&partnerID=40&md5=7d09aa3b0c3bd760cc1b1cd4c7e38d11
2631	Effect of rhododendron arboreum leaf extract on the antioxidant defense system against chromium (Vi) stress in vigna radiata plants	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Zoology Department, College of Science, King Saudi University, Riyadh, 11451, Saudi Arabia; Botany and Microbiology Department, College of Science, King Saudi University, Riyadh, 11451, Saudi Arabia; Department of Botany, S.P. College, Srinagar, 190001, India	8	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079071969&doi=10.3390%2fplants9020164&partnerID=40&md5=8bd6d1e2ab552d1474d1e31ffd7e5fbb
2632	Fog-Cloud centric IoT-based cyber physical framework for panic oriented disaster evacuation in smart cities	Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus, Gurdaspur, PB, India; Department of Computer Science and Informatics, Central University of Himachal Pradesh, Dharamshala, HP, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089402399&doi=10.1007%2fs12145-020-00481-6&partnerID=40&md5=53a7617b4cb212ac02648249a46bc378
2633	Heavy nucleus acoustic periodic waves in a degenerate relativistic magneto-rotating quantum plasma	Department of Physics, Guru Nanak Dev University, Amritsar, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088835156&doi=10.1080%2f17455030.2020.1798561&partnerID=40&md5=6212f8bf9b8aefa591351ebbd5d3a475
2634	5-Nonyloxytryptamine oxalate–embedded collagen–laminin scaffolds augment functional recovery after spinal cord injury in mice	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086119842&doi=10.1111%2fnyas.14279&partnerID=40&md5=13fd5a65beff5e48d8dd34bcf5b268e8
2635	Design, synthesis, heme binding and density functional theory studies of isoindoline-dione-4-aminoquinolines as potential antiplasmodials	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Medicine, University of California, San Francisco, CA 94143, United States; Department of Pharmaceutical Chemistry, University of KwaZulu-Natal, Durban, 4000, South Africa; Department of Industrial Chemistry, Federal University of Oye-Ekiti, Nigeria; School of Chemistry and Physics, University of KwaZulu-Natal, Westville, Durban, 4000, South Africa	8	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079248004&doi=10.4155%2ffmc-2019-0260&partnerID=40&md5=81a26700d8100876b558a10aaf59a913

2636	Synthesis, structures, and novel antimicrobial activity of silver(I) halide complexes of imidazolidine-2-thiones	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143 005, India; Departamento de Química Inorganica, Facultad de Farmacia, Universidad de Santiago, Santiago, 15782, Spain; Department of Chemistry, Keene State College, Keene, NH 03435-2001, United States	7	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075425113&doi=10.1016%2fj.poly.2019.114235&partnerID=40&md5=c6e8a120aeb3b824f0bc75f03648c40e
2637	MRR and surface morphological analysis of electrical-discharge-machined Co-Cr alloy	I.K. Gujral Punjab Technical University, Kapurthala, India; Department of Mechanical Engineering, Khalsa College of Engineering and Technology, Amritsar, India; Department of Mechanical Engineering, Beant College of Engineering and Technology, Gurdaspur, India	3	2020	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089845042&doi=10.1680%2fjemmr.19.00034&partnerID=40&md5=37bcdadafdbd2177f0ffb6fb046f413e
2638	Overcoming the dissolution rate, gastrointestinal permeability and oral bioavailability of glimepiride and simvastatin co-delivered in the form of nanosuspension and solid self-nanoemulsifying drug delivery system: A comparative study	School of Pharmaceutical Sciences, Lovely Professional University, Phagwara, Punjab 144411, India; Department of Pharmaceutics, JSS College of Pharmacy, JSS Academy of Higher Education & Research, Ooty, Nilgiris, Tamil Nadu, India; Centre of Excellence in Nanoscience & Technology, JSS College of Pharmacy, JSS Academy of Higher Education & Research, Ooty, Nilgiris, Tamil Nadu, India; Department of Pharmaceutical Sciences, Maharshi Dayanand University, Rohtak, Haryana 124001, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India; School of Pharmacy, International Medical University, Bukit Jalil, Kuala Lumpur, 57000, Malaysia; Department of Chemical Pathology, School of Pathology, Faculty of Health Sciences and National Health Laboratory Service, University of the Free State, Bloemfontein, South Africa; Discipline of Pharmacy, Graduate School of Health, University of Technology Sydney, Australia	18	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091368259&doi=10.1016%2fj.iddst.2020.102083&partnerID=40&md5=1dcd05dd2b8dba449f00d12974c30a28
2639	Effects of annealing temperature on structural and photoluminescence properties of Eu, Dy and Sm doped CaWO ₄ nanoparticles	Sensors and Glass Physics Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Centre for Energy Research, Konkoly-Thege Street 29-33, Budapest, 1121, Hungary	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089287059&doi=10.1016%2fj.ceramint.2020.07.211&partnerID=40&md5=85b52a316c16af7cb6a6a48ae8ee68dc2
2640	Amphiphilic ionic liquid induced fusion of phospholipid liposomes	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096152031&doi=10.1039%2fd0cp04014b&partnerID=40&md5=66b1938ef5fb2f331a23a62640b2be27
2641	5-aminolevulinic acid regulates Krebs cycle, antioxidative system and gene expression in Brassica juncea L. to confer tolerance against lead toxicity	Department of Botanical and Environmental Science, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Agriculture, Food and Environment, University of Pisa, Via del Borghetto 80, Pisa, I-56124, Italy; CIRSEC, Centre for Climatic Change Impact, University of Pisa, Via del Borghetto 80, Pisa, I-56124, Italy; State Key Laboratory of Subtropical Silviculture, Zhejiang A&F University, Hangzhou, 311300, China	8	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091226772&doi=10.1016%2fj.ibiotech.2020.09.004&partnerID=40&md5=6972716c75c3ee8e7087ae8a708b2091
2642	Design of 3.84 Tbps hybrid WDM-PDM based inter-satellite optical wireless communication (IsOWC) system using spectral efficient orthogonal modulation scheme	Department of ECE, Sri Krishna College of Technology, Coimbatore, 641042, India; Department of ECE, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai, India; Department of EEE, SRM University, Chennai, India; Department of Engineering and Technology, Guru Nanak Dev University, Regional Campus, Jalandhar, India; Division of Computational Physics, Institute for Computational Science, Ton Duc Thang University, Ho Chi Minh City, Viet Nam; Faculty of Electrical and Electronics Engineering, Ton Duc Thang University, Ho Chi Minh City, Viet Nam	6	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077708081&doi=10.1007%2fs12652-020-01691-y&partnerID=40&md5=9a1935d83eb7977c02f026471cb5b96c
2643	Physico-chemical characterization and topological analysis of pathogenesis-related proteins from Arabidopsis thaliana and Oryza sativa using in-silico approaches	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India; CSIR-Institute of Himalayan Bioresource Technology, Palampur, Himachal Pradesh, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092062862&doi=10.1371%2fjournal.pone.0239836&partnerID=40&md5=6a247b0718eb415788d6b847056c5d2c

2644	India fights COVID-19	MYAS-GNDU Department of Sports Sciences and Medicine, Guru Nanak Dev University, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089769462&doi=10.1037%2fttra000615&partnerID=40&md5=50cd41580949cb552d074db87f06004b
2645	Design, synthesis and biological evaluation of novel indolinedione–coumarin hybrids as xanthine oxidase inhibitors	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	10	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088607280&doi=10.1007%2fs00044-020-02589-2&partnerID=40&md5=ce30a5d35f506038cc9a7a5ed9fd5c57
2646	Revisiting the role of relationship benefits in online retail	Department of Commerce and Business Management, Guru Nanak Dev University, Amritsar, India	1	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074438523&doi=10.1108%2fMIP-03-2019-0186&partnerID=40&md5=8bd4d870057072c1123f958203d35755
2647	Nonplanar ion acoustic waves in dusty plasma with two temperature electrons: Application to Saturn's e ring	Sikh National College, Banga, 144505, India; Department of Physics, Dav University, Jalandhar, 144012, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143 005, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090088122&doi=10.1063%2f5.0013015&partnerID=40&md5=905231c01b5c875311024b4b6e291e69
2648	Purification and characterization of salvianolic acid B from Streptomyces sp. M4 possessing antifungal activity against fungal phytopathogens	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083883042&doi=10.1016%2fj.micres.2020.126478&partnerID=40&md5=d4cf68b6f0179ba244077e6c79456dea
2649	Photophysical behavior of heme group: Unfolding of hemoglobin and myoglobin in the presence of Gemini surfactants of different molecular architectures	Department of Chemistry, Natural and Applied Sciences, University of Wisconsin - Green Bay, 2420 Nicolet Drive, Green Bay, WI 54311-7001, United States; Nanotechnology Research Laboratory, College of North Atlantic, Labrador CityNL A2V 2K7, Canada; Department of Chemistry, Khalsa College, G. T. Road, Amritsar, Punjab 143002, India; Department of Chemistry, B.B.K. D.A.V. College for Women, Amritsar, Punjab 143005, India; School of Chemistry, Faculty of Basic Sciences, Shoolini University, Solan, HP 173212, India; Department of Environmental Sciences, Central University of Himachal Pradesh, TAB Shahpur, Dist. Kangra, Himachal Pradesh 176206, India	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083447942&doi=10.1016%2fj.jbiomac.2020.04.008&partnerID=40&md5=d4bb8479b65de1fb15325e205c58ecdf
2650	Field-Induced Single Molecular Magnetism and Photoluminescence in Rare Cocrystals of Isomorphous Lanthanide(III) Coordination Compounds with Fully Substituted Pyridine-4-carboxamide Ligand	Department of Chemistry, Ugc Sponsored-Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India; Institut des Sciences Chimiques de Rennes, Umr 6226 Cnrs, Université de Rennes 1, Rennes Cedex, 35042, France	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087290975&doi=10.1021%2facs.inorgchem.0c01134&partnerID=40&md5=e870e633b47a8a5b3c60313eea4a2e70
2651	Effect of co-substitution of Zn ²⁺ /Zr ⁴⁺ on Surface Morphology, Structure and Magnetic Properties of BaZn _x Zr _x Fe _{12-2x} O ₁₉	Department of Chemistry, UGC Center for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Analytical and Environmental Science Division and CIF, CSIR-Central Salt and Marine Chemicals Research Institute, Gijubhai Badheka Marg, Bhavnagar, Gujarat 364002, India	8	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086360317&doi=10.1088%2f1742-6596%2f1531%2f1%2f012097&partnerID=40&md5=de75d0f38ff5e007e9ccc6130e84088
2652	A VANET-IoT based Accident Detection and Management System for the Emergency Rescue Services in a Smart City	Guru Nanak Dev University RC, Department of Computer Science and Engineering, Jalandhar, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093114924&doi=10.1109%2fj.CRITO48877.2020.9198010&partnerID=40&md5=50cc5c0f85f9287d80692910a7936a58
2653	Energy-Efficient IoT-Fog-Cloud Architectural Paradigm for Real-Time Wildfire Prediction and Forecasting	Guru Nanak Dev University Regional Campus Gurdaspur, Gurdaspur, 143521, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086065498&doi=10.1109%2fJVSYST.2019.2923635&partnerID=40&md5=2a4874f032e707968d1e147233a7aa26
2654	Cloud-assisted green IoT-enabled comprehensive framework for wildfire monitoring	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, India; Department of Computer Science and Engineering, Lovely Professional University, Phagwara, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074000271&doi=10.1007%2fs10586-019-02981-7&partnerID=40&md5=3a61833471bbfa481db0f21dea67dc84
2655	Corporate governance and underpricing of small and medium enterprises IPOs in India	Department of Commerce, Faculty of Arts and Social Sciences, Guru Nanak Dev University, Amritsar, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082180518&doi=10.1108%2fCG-08-2019-0259&partnerID=40&md5=11bcc5edc43a9ba1980274cc181e4c59
2656	Sol-gel derived strontium-doped SiO ₂ –CaO–MgO–P ₂ O ₅ bioceramics for faster growth of bone like hydroxyapatite and their in vitro study for orthopedic applications	Department of Physics, Guru Nanak Dev University, Amritsar, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079092329&doi=10.1016%2fj.matchemphys.2020.122763&partnerID=40&md5=aeab8cae71320a4e7c21e4517b130817

2657	Phase structure evolution, crystal structure refinement, morphology, and electro-optical properties of heat-treated Ca _{0.9} Ni _{0.1} Cu _{2.9} La _{0.1} Ti ₄ O ₁₂	Department of Physics, School of Physical Sciences and Chemical Engineering, Lovely Professional University, Phagwara, Punjab 144411, India; Department of Physics, Faculty of Science, Federal University Dutse, P.M.B. 7156, Dutse, Jigawa State, Nigeria; Department of Science Education, Faculty of Arts and Education, Bauchi State University, Gadau, P.M.B. 65, Itas/Gadau, Bauchi State, Nigeria; Analytic Division and Centralised Instrument Facility, CSIR-Central Salt and Marine Chemicals Research Institute, Gijubhai Badheka Marg, Bhavnagar, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Polymer and Processing Engineering, Indian Institute of Technology Roorkee, Saharanpur Campus, Saharanpur, U. P. 247001, India	8	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076211753&doi=10.1016%2fj.ceramint.2019.11.213&partnerID=40&md5=5fbc35f7724c0665cb52d41591bd9e844
2658	Near-IR oxime-based solvatochromic perylene diimide probe as a chemosensor for Pd species and Cu ²⁺ ions in water and live cells	Department of Chemistry, UGC Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143 005, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083429609&doi=10.1039%2fc9pp00487d&partnerID=40&md5=09233401cd7f3ab289d3e144589468b7
2659	Comparative study of physicochemical and functional properties of flours from kidney bean (<i>Phaseolus vulgaris</i> L.) and green gram (<i>Vigna radiata</i> L.) cultivars grown in Indian temperate climate	Department of Food Science & Technology, University of Kashmir, Srinagar, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85097769475&doi=10.1002%2fleg3.11&partnerID=40&md5=44256f871cd7e2eed98d004514d08afd
2660	Effect of buckwheat incorporation on batter fermentation, rheology, phenolic, amino acid composition and textural properties of Idli	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; P.G. Department of Biotechnology, Khalsa College, Amritsar, Punjab 143002, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077943618&doi=10.1016%2fj.lwt.2020.109042&partnerID=40&md5=41a0f149eb77622b07fbadfb55344b67
2661	A novel starch from <i>Pongamia pinnata</i> seeds: Comparison of its thermal, morphological and rheological behaviour with starches from other botanical sources	Department of Food Science and Technology, Chaudhary Devi Lal University, Sirsa, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; Department of Food Science and Technology, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076544453&doi=10.1016%2fj.iibiomac.2019.10.033&partnerID=40&md5=ede077092bfe1bbf3c6e13dc530715a9
2662	Diagnosis of cardiac arrhythmia using swarm-intelligence based metaheuristic techniques: A comparative analysis	Dept. of Comp. Sc., GNDU Amritsar, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85098963700&doi=10.4108%2fjai.22-9-2020.166357&partnerID=40&md5=0c53d538f4edc5cb4ef2865a93c766e8
2663	Anti-neuroinflammatory potential of <i>Tylophora indica</i> (Burm. F) Merrill and development of an efficient in vitro propagation system for its clinical use	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India; Amity Institute of Biotechnology, Amity University, Haryana, India	9	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082328163&doi=10.1371%2fjournal.pone.0230142&partnerID=40&md5=436f10f6fa11aef98cfef48fbc9548f
2664	Factors affecting customers' attitude towards solar energy products	University Business School, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079176089&doi=10.1504%2fjUBIR.2020.104819&partnerID=40&md5=b4e40a7cd2473fc347df631bbffb75690
2665	Exoproteome profile reveals thermophilic fungus <i>Crassiacarpon thermophilum</i> (strain 6GKB; syn. <i>Corynascus thermophilus</i>) as a rich source of cellobiose dehydrogenase for enhanced saccharification of bagasse	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Faculty of Applied Medical Sciences, Lovely Professional University, Jalandhar–Delhi Highway, Phagwara, Punjab 144411, India; Centre for Structural and Functional Genomics, Concordia University, 7141 Sherbrooke Street West, Montreal, Quebec H4B 1R6, Canada	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075987286&doi=10.1016%2fj.biombioe.2019.105438&partnerID=40&md5=6d6c13741100517c8af9d7fac19f89f5
2666	Assessment of alpha glucosidase inhibitors produced from endophytic fungus <i>Alternaria destruens</i> as antimicrobial and antibiofilm agents	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075360145&doi=10.1007%2fs11033-019-05145-3&partnerID=40&md5=d8de7d0228c09521e6c1a6660d430840
2667	X-Band Microwave Analysis and Characterization of Zinc Substituted Nickel Ferrites Prepared by Sol–Gel Citrate Route	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074697253&doi=10.1007%2fs11664-019-07694-6&partnerID=40&md5=ffe61ac7da716a00b8e0760efb98e632
2668	Synthesis and the study of structural, thermal and optical properties of (100-x)Bi ₂ O ₃ -x(BaO-TiO ₂) glass system	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Physics, Vasavi College of Engineering, Ibrahimbagh, Hyderabad, 500031, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091654086&doi=10.1016%2fj.jleop.2020.165646&partnerID=40&md5=0d5abee64aba8aef6f7ae952f700b2ac
2669	Reactive oxygen species generating and scavenging systems play critical role in conferring leaf spot disease resistance in <i>Withania somnifera</i> (L.) Dunal	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Senior Principal Scientist, CSIR-IHBT, Palampur, Himachal Pradesh 176061, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090021789&doi=10.1016%2fj.indcrop.2020.112889&partnerID=40&md5=d670a4dae5f96990685ccd7c85f9f7b7

2670	Impact of ultrasonication on functional and structural properties of Indian wheat (<i>Triticum aestivum</i> L.) cultivar starches	Department of Food Science and Technology, Chaudhary Devi Lal University, Sirsa, Hr, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Pb, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089535206&doi=10.1016%2fiibiomac.2020.08.013&partnerID=40&md5=15d8a4155440636964915fae49a2b524
2671	A photocatalytic ensemble HP-T@Au-Fe3O4: Synergistic and balanced operation in Kumada and Heck coupling reactions	Department of Chemistry, Ugc Sponsored Centre for Advanced Study-II, Guru Nanak Dev University, Amritsar Punjab, 143005, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096589988&doi=10.1039%2fd0gc02082f&partnerID=40&md5=086ae75e6bd16e1f1e16e3892115b07c
2672	Design and synthesis of 4-Aminoquinoline-isoindoline-dione-isoniazid triads as potential anti-mycobacterials	Department of Chemistry, Guru Nanak Dev University, Amritsar 143005, Punjab, India; Institut de Recherche en Infectiologie (IRIM) de Montpellier, CNRS, UMR 9004, Université de Montpellier, France; INSERM, IRIM, Montpellier, 34293, France; School of Chemistry and Physics, University of KwaZulu-Natal, P/Bag X54001, Westville, Durban, South Africa	9	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091995853&doi=10.1016%2fj.bmcl.2020.127576&partnerID=40&md5=896b22d6ee0d741b5c84ba8edc559b08
2673	Performance analysis of high speed backward compatible TWDM-PON with hybrid WDM–OCDMA PON using different OCDMA codes	Department of Electronics and Communication Engineering, Punjabi University, Patiala, Punjab, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University Regional Campus, Gurdaspur, Punjab, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093980192&doi=10.1007%2fs11082-020-02597-x&partnerID=40&md5=b6e8a29217b8c965ad6e1c67177b82c0
2674	Evaluating metabolic potential of <i>Thauera</i> sp. M9 for the transformation of 4-chloroaniline (4-CA)	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091917404&doi=10.1016%2fj.bcab.2020.101768&partnerID=40&md5=6b011a4985ee77f2a93bc7e049ff3fa6
2675	The neuroplasticity marker PSA-NCAM: Insights into new therapeutic avenues for promoting neuroregeneration	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090718595&doi=10.1016%2fj.phrs.2020.105186&partnerID=40&md5=d22301710e4432d57e1c635dfeea6a7b
2676	Comprehensive analysis of crystal structure, optical and luminescent behavior of Fe doped MgO nanophosphors	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088923281&doi=10.1016%2fj.jileo.2020.164742&partnerID=40&md5=7a6ce05f475665a7656a64b0cd505541
2677	A high-speed radio-over-free-space optics link using wavelength division multiplexing-mode division multiplexing-multibeam technique	Department of ECE, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai, India; Department of Engineering and Technology, Guru Nanak Dev University, Regional Campus, Jalandhar, India; Division of Computational Physics, Institute for Computational Science, Ton Duc Thang University, Ho Chi Minh City, Viet Nam; Faculty of Electrical and Electronics Engineering, Ton Duc Thang University, Ho Chi Minh City, Viet Nam	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088656795&doi=10.1016%2fj.compeleceng.2020.106779&partnerID=40&md5=b99b44f2d688904cd95b8ffa77a75063
2678	A 2 × 40 Gbps Mode Division Multiplexing Based Inter-satellite Optical Wireless Communication (IsOWC) System	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085052217&doi=10.1007%2fs11277-020-07483-z&partnerID=40&md5=7cd12c5324f4076a9c7557217361b5c2
2679	Protective role of <i>Phyllanthus fraternus</i> in alloxan-induced diabetes in rats	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Sri Guru Ram Das Institute of Medical Sciences and Research, Amritsar, 143005, India; Department of Pathology and Laboratory Medicine, University of Ottawa, Faculty of Medicine, Ottawa, ON, Canada	8	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079903823&doi=10.1016%2fj.jaim.2019.09.008&partnerID=40&md5=d4b6bf91057e8f7b3fadee9440762ead
2680	Secretome analysis of <i>Talaromyces emersonii</i> reveals distinct CAZymes profile and enhanced cellulase production through response surface methodology	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Center for Structural and Functional Genomics, Concordia University, 7141 Sherbrooke Street West, Montreal, Quebec H4B 1R6, Canada	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084863470&doi=10.1016%2fj.indcrop.2020.112554&partnerID=40&md5=12b3a6375290ed9b71a1871532dd520b
2681	Resveratrol-loaded folate targeted lipoprotein-mimetic nanoparticles with improved cytotoxicity, antioxidant activity and pharmacokinetic profile	Department of Pharmaceutics, Jan Nayak Ch. Devi Lal Memorial College of Pharmacy, Sirsa, Haryana 125055, India; I. K. Gujral Punjab Technical University, Jalandhar, Punjab, India; Amity Institute of Pharmacy, Amity University, Sector-125, Noida, 201313, India; Department of Pharmaceutics, Khalsa College of Pharmacy, Amritsar, Punjab, India; Department of Pharmaceutics, School of Pharmaceutical Education and Research, Jamia Hamdard, New Delhi, 110062, India; Amity Institute of Molecular Medicine & Stem Cell Research (AIMMSCR), Amity University, Sector-125, Noida, 201313, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084331386&doi=10.1016%2fj.msec.2020.111016&partnerID=40&md5=5507891d8acf7995cd3d7ebacba01c7

2682	Antioxidant characterization and in vitro DNA damage protection potential of some Indian fenugreek (<i>Trigonella foenum-graecum</i>) cultivars: effect of solvents	Department of Food Science and Technology, Chaudhary Devi Lal University, Sirsa, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; Department of Food Science and Technology, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083786556&doi=10.1007%2fs13197-020-04380-y&partnerID=40&md5=d5a8c12b5f865a7274b2cf618d5ed4ba
2683	Antioxidant Phytoconstituents From <i>Onosma bracteata</i> Wall. (Boraginaceae) Ameliorate the CCl4 Induced Hepatic Damage: In Vivo Study in Male Wistar Rats	Department of Botanical Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Indigenous Education and Research Centre, James Cook University, Townsville, QLD, Australia; Department of Biotechnology, Ambala, India; Tartu, Estonia; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India	7	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090388010&doi=10.3389%2ffphar.2020.01301&partnerID=40&md5=2baca12b45a10a6ad64c8e0e4a6d3e34
2684	Stage of development of a country and CSR disclosure – the latent driving forces	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085705607&doi=10.1108%2fjllma-03-2020-0068&partnerID=40&md5=fa4cc153878ca1dadb88cc57ec2bc4ed
2685	Fabrication and analysis of piezoelectricity in 0D, 1D and 2D Zinc Oxide nanostructures	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Mechanical Engineering, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084840884&doi=10.1016%2fj.ceramint.2020.04.283&partnerID=40&md5=737b9baa958368fa2343ee51e1dca90f
2686	A stilbazolium dye-based chromogenic and red-fluorescent probe for recognition of 2,4,6-trinitrophenol in water	Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar Punjab, India; School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala Punjab, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087781683&doi=10.1039%2fd0nj00489h&partnerID=40&md5=b4eb59677205846a34f8f2b39e54793f
2687	<i>Butea monosperma</i> (Lam.) Taub. Bark fractions protect against free radicals and induce apoptosis in MCF-7 breast cancer cells via cell-cycle arrest and ROS-mediated pathway	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Biology, S.D. College, Barnala, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054588308&doi=10.1080%2f01480545.2018.1497051&partnerID=40&md5=70d63591dd4927f35b50ef343e5f6fa4
2688	Understanding Phase Segregation Using Rietveld Analysis and the Dielectric, Ferroelectric Properties of Ba(1-x)CaTiO3 Solid Solutions	Material Science and Characterization Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Analytical and Environmental Science Division and CIF, CSIR-Central Salt and Marine Chemical Research Institute, Bhavnagar, Gujarat 364002, India	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084130375&doi=10.1007%2fs11664-020-08150-6&partnerID=40&md5=d1ac443c115037e68cea2fbc6d2c44d2
2689	(BaxMg1-x) (Ti0.95Sn0.05)O3 (x = 0.025, 0.05, 0.075 and 0.1) solid solutions as effective Ku-band (12.4–18 GHz) shielders	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081662318&doi=10.1016%2fj.ceramint.2020.03.057&partnerID=40&md5=fe5c8a0604f8e9fb13e1e4edfb5ce988
2690	In-vitro antioxidant, antimutagenic and cancer cell growth inhibition activities of <i>Rhododendron arboreum</i> leaves and flowers	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; College of Pharmacy, King Saud University, Riyadh, Saudi Arabia; Zoology Department, College of Science, King Saud University, Riyadh, Saudi Arabia; Botany and Microbiology Department, College of Science, King Saud University, Riyadh, Saudi Arabia; Department of Botany, S. P. College, Srinagar, Jammu and Kashmir, India	7	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079554472&doi=10.1016%2fj.sjbs.2020.01.030&partnerID=40&md5=cae507514b99aef95a773e7cb7750a28
2691	5GAUeNetS: an autonomous 5G network selection framework for Industry 4.0	ECE Department, GNDU RC, Jalandhar, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074706925&doi=10.1007%2fs00500-019-04460-y&partnerID=40&md5=78d896f9cf92725a9a869e550ff4bbb7
2692	In Silico Studies and in Vivo MAOAInhibitory Activity of Coumarins Isolated from <i>Angelica archangelica</i> Extract: An Approach toward Antidepressant Activity	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, 147002, India	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087770501&doi=10.1021%2facsomega.0c00887&partnerID=40&md5=44d5c173a30fc4e9d6e064aea14d2c1
2693	Synchrotron-based VUV excitation-induced ultrahigh quality cool white light luminescence from Sm-doped ZnO	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143001, India; Centre for Nanoscience and Nanotechnology, Panjab University, Chandigarh, 160014, India; InterUniversity Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India	6	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086620640&doi=10.1364%2fol.395393&partnerID=40&md5=402a60426d36637dfc73ad1ac4054be9
2694	QoS-aware energy-efficient task scheduling on HPC cloud infrastructures using swarm-intelligence meta-heuristics	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, 143005, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091098950&doi=10.32604%2fcmcc.2020.010934&partnerID=40&md5=54626ab39ecc4912f94bd124e87bac1f

2695	Effect of porous medium and copper heat sink on cooling of heat-generating element	Laboratory on Convective Heat and Mass Transfer, Tomsk State University, Tomsk, 634050, Russian Federation; Department of Mathematics, Davangere University, Shivagangothri, Davangere, 577007, India; Department of Mathematics, Guru Nanak Dev University, Amritsar, 143005, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086010560&doi=10.3390%2fen13102538&partnerID=40&md5=8a413981a7cf5c9ff480baa0b698fb43
2696	Study of the magnetic, electrical and magneto-dielectric properties and dielectric relaxation in 0.8BiFeO3-0.2BaO-8SrO-2TiO3 solid solution	Department of Physics, Baba Farid College (Affiliated to Punjabi University, Patiala), Bathinda, Punjab 151001, India; Multifunctional Materials Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Electronics and Communication Engineering, CT Institute of Technology, Jalandhar, Punjab 144026, India	7	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082804368&doi=10.1016%2fi.solidstatesciences.2020.106193&partnerID=40&md5=e9864505a0ebfdf62f37f7758b39c6b8
2697	Potential carcinogenic and non-carcinogenic health hazards of metal(loid)s in food grains	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; CSIRO Land and Water, Environmental Contaminant Mitigation and Biotechnology Program, Waite Campus, Waite Rd, Urrbrae, SA 5064, Australia; Department of Zoology, Khalsa College Amritsar, Amritsar, Punjab, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India	9	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081913551&doi=10.1007%2fs11356-020-08238-w&partnerID=40&md5=41d41d0eba2b457da58b835201746ccc
2698	An endophytic <i>Penicillium oxalicum</i> isolated from Citrus limon possesses antioxidant and genoprotective potential	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India	7	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078632611&doi=10.1111%2fjam.14553&partnerID=40&md5=df86098ebdfae04e86be565ffc852afa
2699	Hydration characteristics, structural effects and the taste quality of some polyhydroxy compounds in aqueous solutions of nicotinic acid (vitamin B3) at (288.15–318.15) K	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	3	2020	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075902332&doi=10.1016%2fi.foodchem.2019.125861&partnerID=40&md5=2adadc9c0dcd4cd4a403fd824f04b04d
2700	Diallyl phthalate-triggered oxidative stress in <i>Spirodela polyrhiza</i> L. Schleiden: physiological effects and role of antioxidant defence system	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070602514&doi=10.1007%2fs13762-019-02491-4&partnerID=40&md5=5f457d74a93051c80da3c93b411939a7
2701	Ameliorative potential of <i>Argyrea speciosa</i> against CCI-induced neuropathic pain in rats: Biochemical and histopathological studies	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Sri Guru Ram Das Institute of Medical Sciences and Research, Amritsar, 143005, India; Department of Pathology and Laboratory Medicine, University of Ottawa, Faculty of Medicine, Ottawa, Ontario, Canada	7	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075826307&doi=10.1016%2fi.jep.2019.112399&partnerID=40&md5=5f521c846767f9d98f135a025f12e018
2702	Elucidation of Interactions between l-Ascorbic Acid and Mixed Micellar Aggregates of Catanionic (Sodium Dodecylsulfate + Cetyltrimethylammonium Bromide) Surfactants via Physicochemical and Spectroscopic Studies	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070504514&doi=10.1002%2fjsde.12328&partnerID=40&md5=0656aa4fc8f4264fb8a5c69a5194116c
2703	Aqueous colloidal systems of bovine serum albumin and functionalized surface active ionic liquids for material transport	Department of Chemistry, UGC-Centre for Advance Studies-II, Guru Nanak Dev University, Amritsar, 143005, India; Bhabha Atomic Research Centre, Solid State Physics Division, Mumbai, 400085, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079824585&doi=10.1039%2fc9ra05549e&partnerID=40&md5=5cdf8a0a41ad5a1246b2e9eb73114d0f
2704	Functionalized Iron Oxide-Metal Hybrid Nanoparticles for Protein Extraction from Complex Fluids	University of Wisconsin-Green Bay, Green Bay, WI, United States; Chandigarh University, Gharuan, India; Khalsa College, Amritsar, India	6	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078672540&doi=10.1021%2facs.iecr.9b06150&partnerID=40&md5=ef3c688f24a8d4434f4f46c9f29899d3
2705	Concentrated aqueous dispersions of low-defect few-layer thick graphene using surface active ionic liquid for enhanced enzyme activity	Department of Chemistry, University Grants Commission (UGC), Centre for Advanced Studies-II, Guru Nanak Dev University, Punjab, Amritsar, 143005, India; Department of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University, 744 Motoooka, Nishi-ku, Fukuoka, 819-0395, Japan	7	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85101060924&doi=10.1039%2fd0ma00159g&partnerID=40&md5=1989da696d7ae87489597ce0ed1dbde6
2706	Room temperature ammonia sensing using MoSe2 nanostructures	Department of Physics, Guru Nanak Dev University Amritsar143005, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090046493&doi=10.1016%2fj.matpr.2019.12.130&partnerID=40&md5=f6006205c0faf1b8ab766ced62f03153

2707	Impact of celebrity endorser as in-store stimuli on impulse buying	University Business School, Guru Nanak Dev University, Amritsar, Punjab, India; Member of Teaching Staff (Marketing), UNSWACT, Australia	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088087390&doi=10.1080%2f09593969.2020.1781229&partnerID=40&md5=4c48b3d0410a8f7d8a1e65e36784b4f3
2708	Ligand conjugated targeted nanotherapeutics for treatment of neurological disorders	Department of Pharmaceutics, School of Pharmaceutical Education and Research, Jamia Hamdard, New Delhi, 110062, India; Department of Pharmaceutics, Khalsa College of Pharmacy, Amritsar, Punjab, India; Department of Pharmaceutical Technology, Meerut Institute of Engineering and TechnologyUttar Pradesh, India	8	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086792936&doi=10.2174%2f1381612826666200417141600&partnerID=40&md5=b1b2f096f38fb206779390bef3663cd7
2709	E-service Quality: Development and Validation of the Scale	Indian Institute of Management, Rohtak, Haryana, India; University Business School (UBS), Guru Nanak Dev University (GNDU), Amritsar, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084845372&doi=10.1177%2f0972150920920452&partnerID=40&md5=82bcd7556a68f1eb25d6d5ea01ce8dfb
2710	A New Scale to Capture the Multidimensionality of Celebrity Image	University Business School, Guru Nanak Dev University, Amritsar, Punjab, India; UNSW, Canberra, Australia	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084823580&doi=10.1177%2f0972150920919599&partnerID=40&md5=f02bc9b0689994449e66af6f102e5d01
2711	A cost-effective high-capacity OFDM based rofso transmission link incorporating hybrid SS-WDM-MDM of hermite gaussian modes	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084346927&partnerID=40&md5=7240019497b56c113a1a4af3b91eeeb4
2712	Association of XRCC1, XRCC2 and XRCC3 gene polymorphism with esophageal cancer risk	Human Cytogenetics Laboratory, Department of Human Genetics, Guru Nanak Dev University, Amritsar, India; Department of Surgery; Department of Pathology, Sri Guru Ram Das Institute of Medical Sciences and Research, Amritsar, Punjab, India; Department of Radiotherapy, Sri Guru Ram Das Institute of Medical Sciences and Research, Amritsar, Punjab, India	7	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082672329&doi=10.2147%2fCEG.S232961&partnerID=40&md5=4d364693196a79e18a5ba3cf8305f8ce
2713	An intelligent framework for monitoring dengue fever risk using LDA-ANFIS	Department of Computer Science and Informatics, Central University of Himachal Pradesh, Dharamshala, HP, India; Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus, Gurdaspur, PB, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, PB, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079155215&doi=10.3233%2fAIS-200547&partnerID=40&md5=8ac151d0aedb39b0217c8be32dd80a14
2714	Heavy metal concentration and mutagenic assessment of pond water samples: A case study from India	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Botany and Environmental Science, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078271405&doi=10.15244%2fajpjoes%2f103449&partnerID=40&md5=8b6c807c18f16cec56fbad6987cd6365
2715	A pursuit to design highly sensitive fullerene-based sensors: adsorption and dissociation phenomenon of toxic sulfur gases on B40 fullerene	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077028378&doi=10.1007%2fs00894-019-4279-x&partnerID=40&md5=e7127105d107d12d454fcd94ee5a876
2716	Histochemical and physicochemical studies reveal improved defense in tomato under Cd stress with rhizobacterial supplementation	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; State Key Laboratory of Subtropical Silviculture, Zhejiang A&F University, Hangzhou, 311300, China; Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India; Chair of Climate Change, Environmental Development and Vegetation Cover, Department of Botany and Microbiology, College of Science, King Saud University, Riyadh, 11451, Saudi Arabia; Department of Botany and Microbiology, King Saud University, Riyadh, KSA, Saudi Arabia; Department of Botany, S.P. College Srinagar, Jammu, Kashmir, India	8	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075388835&doi=10.1007%2fs11104-019-04356-8&partnerID=40&md5=21a77b22f483ce96a0e61e20dbdeda51
2717	The enigmatic sperm proteins in mammalian fertilization: An overview	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85099073066&doi=10.1093%2fbiolre%2fioaa140&partnerID=40&md5=f2aeebc59a30078760e0581feeca0c51
2718	Bioactive potential of endophytic fungus Chaetomium globosum and GC–MS analysis of its responsible components	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, 143005, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85094903574&doi=10.1038%2fs41598-020-75722-1&partnerID=40&md5=f4be511e001ca0f01a05a218b1be8e55

2719	Amalgamating Isatin/Indole/Nitroimidazole with 7-chloroquinolines via azide-alkyne cycloaddition: Synthesis, anti-plasmodial, and cytotoxic evaluation	Department of Chemistry, Guru Nanak Dev University, Amritsar, India; Department of Chemistry, DAV College, Amritsar, India; Department of Medicine, University of California, San Francisco, CA, United States	6	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087174232&doi=10.1111%2fcbdd.13738&partnerID=40&md5=c9636e29a2a247904b7d9af251babd18
2720	A meta-analysis of mannose-binding lectin gene polymorphisms with the risk of recurrent vulvovaginal infections	Department of Molecular Biology & Biochemistry, Guru Nanak Dev University, Amritsar, India; Department of Information Technology, University of Turku, Turku, Finland; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083280382&doi=10.1038%2fs41598-020-63261-8&partnerID=40&md5=ae3f6af5d535b5e9002f32026bd22836
2721	Mixed-Phase TiO ₂ Nanotube-Nanorod Hybrid Arrays for Memory-Based Resistive Switching Devices	Functional Nanomaterials Research Laboratory, Department of Physics, Doon University, Dehradun, Uttarakhand, 248001, India; Department of Applied Physics, Delhi Technological University, Rohini, Delhi, 110042, India; Institute of Materials Research and Engineering, A STAR (Agency for Science, Technology and Research), 2 Fusionopolis Way, Innovis, No. 08-03, Singapore, 138634, Singapore; Department of Chemistry, Doon University, Dehradun, Uttarakhand, 248001, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Physics, SRM University-AP, Amaravati, 522502, India; School of Engineering and Innovation, The Open University, Milton Keynes, MK7 6AA, United Kingdom; Center for Nanofibers and Nanotechnology, Mechanical Engineering Department, Singapore, 117576, Singapore	8	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096147312&doi=10.1021%2facsanm.0c01648&partnerID=40&md5=8b4f668d1dc853f442ae0ac2c8886d58
2722	Temperature and isospin dependence of the level-density parameter in the A≈110 mass region	Nuclear Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Homi Bhabha National Institute, Mumbai, 400094, India; Guru Nanak Dev University, Amritsar, 143005, India; Physics Department, Faculty of Science, M.S. University of Baroda, Vadodara, 390002, India	12	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096118491&doi=10.1103%2fPhysRevC.102.054605&partnerID=40&md5=9423c2a394547a073e2aa469abb54579
2723	Improvement in classification accuracy and computational speed in bearing fault diagnosis using multiscale fuzzy entropy	Department of Mechanical Engineering, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Discipline of Mechanical Engineering, Indian Institute of Technology, Indore, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092778919&doi=10.1007%2fs40430-020-02671-1&partnerID=40&md5=498d5b2545395c315507b13d09fcf94c
2724	Design, Synthesis, In Silico Analysis, and Structural Study of 4,6-Dimethyl-2-(3-(p-tolyloxy)propoxy)nicotinonitrile Fleximer	Department of Chemistry, Physical Sciences, Mizoram University, Aizawl, Mizoram 796004, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2020	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090436891&doi=10.1002%2fcrat.202000100&partnerID=40&md5=0d65f2f09d86ab370b1345b59af0c786
2725	Structure elaboration of isoniazid: synthesis, in silico molecular docking and antimycobacterial activity of isoniazid–pyrimidine conjugates	Department of Chemistry, UGC Centre of Advance Study-II, Guru Nanak Dev University, Amritsar, 143 005, India; South African Medical Research Council Drug Discovery and Development Research Unit, Department of Chemistry and Institute of Infectious Disease and Molecular Medicine, University of Cape Town, Rondebosch, 701, South Africa	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074757962&doi=10.1007%2fs11030-019-10004-1&partnerID=40&md5=00715cac07d6dbe256a799fd5ab5bff6
2726	An intelligent user-RAT association for 5G enabled Smart Grid	Guru Nanak Dev University Regional Campus, Department of Engineering and Technology, Jalandhar, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096589030&doi=10.1109%2fGUCON48875.2020.9231264&partnerID=40&md5=066c3d3a6027ac13ec8e397415cc20e8
2727	One-pot sustainable preparation of sunlight active ZnS@graphene nano-composites using a Zn containing surface active ionic liquid	Department of Chemistry, University Grants Commission (UGC) Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Earth Resources Engineering, Faculty of Engineering, Kyushu University, 744 Motooka, Nishi-ku, Fukuoka, 819-0395, Japan; Department of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University, 744 Motooka, Nishi-ku, Fukuoka, 819-0395, Japan	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092630856&doi=10.1039%2fd0na00486c&partnerID=40&md5=5af4fb710ba8940884c1982d3490d8f0
2728	Structural and optical characterization of Er-doped CaMoO ₄ down-converting phosphors	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Physics, Lovely Professional University, Phagwara, Punjab, 144411, India; School of Physics and Materials Science, Thapar Institute of Engineering and Technology, Patiala, Punjab, 147004, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092426552&doi=10.1107%2fS2052520620011397&partnerID=40&md5=1a3f9f0f808339dca24356f4ecc0817a

2729	Protective Effect of Esculetin, Natural Coumarin in Mice Model of Fibromyalgia: Targeting Pro-Inflammatory Cytokines and MAO-A	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088028697&doi=10.1007%2fs11064-020-03095-y&partnerID=40&md5=517083b9e62c8f90be0604f6dfb94d0
2730	Comparing the capabilities of transfer learning models to detect skin lesion in humans	Department of Electronics Engineering, Bharati Vidyapeeth (Deemed to be) University, College of Engineering Pune, Pune, India; System Dynamics Lab, Discipline of Mechanical Engineering, Indian Institute of Technology Indore, Indore, India; Government MGM Medical College Maharaja Yashwantrao Hospitals–MYH, Indore, India; Machinery Fault Diagnostics and Signal Processing Laboratory, Department of Mechanical Engineering, Guru Nanak Dev University, Amritsar, India; Discipline of Electrical Engineering, Indian Institute of Technology Indore, Indore, India	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087660405&doi=10.1177%2f0954411920939829&partnerID=40&md5=7b924f3e06d2eb76f0c734e4af653338
2731	Analysis of phase segregation using rietveld refinement in and magnetic properties of Mn doped BCT solid solutions	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; UGC-DAE Consortium for Scientific Research, R-5 Shed, BARC, Mumbai, 400085, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086717872&doi=10.1016%2fj.physb.2020.412299&partnerID=40&md5=42505fea63787bb7bae1b7594b84fea5
2732	Development of mitochondrial replacement therapy: A review	Department of Zoology, Khalsa College AmritsarPunjab 143005, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Central University of Himachal Pradesh, India; Department of Zoology, Guru Nanak Dev University AmritsarPunjab 143005, India	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090599136&doi=10.1016%2fj.heliyon.2020.e04643&partnerID=40&md5=bf2031c767451ea755963ef8553bf639
2733	Molecular characterization and antimicrobial susceptibility of bacterial isolates present in tap water of public toilets	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089808446&doi=10.1093%2finthealth%2fihz074&partnerID=40&md5=2037f59fde4663316a5e8f1c15649cd3
2734	Investigating diversity and impact of the popularity metrics for ranking software packages	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082926210&doi=10.1002%2fismr.2265&partnerID=40&md5=d5f3d0e86c3c288260797cb0efb0f485
2735	Vitamin E TPGS based palatable, oxidatively and physically stable emulsion of microalgae DHA oil for infants, children and food fortification	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Cancer Pharmacology Division, CSIR-Indian Institute of Integrative Medicine, Jammu, Jammu & Kashmir, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Pathology, Government Medical College, Amritsar, Punjab, India; Department of Orthopaedics, Government Medical College, Amritsar, Punjab, India; Department of Pharmacy, Central University of Rajasthan, Ajmer, Rajasthan, India	8	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85068561545&doi=10.1080%2f01932691.2019.1634587&partnerID=40&md5=58f3d94a04330b0884d6cf0a39c27d24
2736	Investigation of antiplasmodial efficacy of lupeol and ursolic acid isolated from Ficus benjamina leaves extract	Department of Pharmaceutical Sciences, IKG Punjab Technical University, Kapurthala, India; Department of Pharmacognosy, Khalsa College of Pharmacy, Amritsar, India; Department of Pharmacognosy and Phytochemistry, SBS College of Pharmacy, Tarn Taran, India; PG Department of Chemistry, Khalsa College Amritsar, Punjab, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059508868&doi=10.1080%2f14786419.2018.1540476&partnerID=40&md5=d8e1e9b667c9c80c677d43c2d9583850
2737	“Metal-free” fluorescent supramolecular assemblies for distinct detection of organophosphate/organochlorine pesticides	Department of Chemistry, UGC Sponsored Centre of Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85095679991&doi=10.1021%2facsomega.0c02315&partnerID=40&md5=b33ac73e94b34100073a812df5a95b76
2738	Two-dipole and three-dipole dispersion coefficients for interaction of alkaline-earth-metal atoms with alkaline-earth-metal atoms and alkaline-earth-metal ions	Department of Physics, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, 247667, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091841557&doi=10.1103%2fPhysRevA.102.022817&partnerID=40&md5=b738b5bf58e50f2869f244219f62f477
2739	Effect of ellagic acid on the larvae of Spodoptera litura (Lepidoptera:Noctuidae) and its parasitoid Bracon hebetor (Hymenoptera:Braconidae)	Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086594967&doi=10.1016%2fj.aspen.2020.05.008&partnerID=40&md5=e0e6c9e874486c7ccb2402f96b4109de

2740	Effect of europium concentration on gamma ray exposed thermoluminescence behaviour of LiF: Sm ³⁺ , Dy ³⁺ , Eu ³⁺ nanophosphor	Research Scholar I.K. Gujral Punjab Technical University, Kapurthala, Punjab, India; Swami PremchandMahavidyalaya, Mukerian, Punjab 144211, India; Beant College of Engineering and Technology, Gurdaspur, Punjab, India; Government Degree College Boys, Kathua, J&K, India; Department of Physics, G.N.D.U, Amritsar, Punjab, India; Centre for Materials Science and Engg., NIT HamirpurHimachal Pradesh 177005, India	7	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085269137&doi=10.1016%2fj.jilleo.2020.164965&partnerID=40&md5=655e101ce23e0253f65b4d231ec8cf4e
2741	A study on physicochemical, antioxidant and microbial properties of germinated wheat flour and its utilization in breads	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081407317&doi=10.1007%2fs13197-020-04311-x&partnerID=40&md5=4f9ae6849801e374248b70b4bd20bfd3
2742	IC-SMART: IoTCloud enabled Seamless Monitoring for Alzheimer Diagnosis and Rehabilitation SysTem	Guru Nanak Dev University, Jalandhar, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076468996&doi=10.1007%2fs12652-019-01534-5&partnerID=40&md5=0184e19a4e11896ffd53a56cbe616fe
2743	Stereoselective C-3 alkylation of trans-3-phenylsulfonyl-β-lactams with organic halides to access C-3 substituted β-lactams using sulfonyl moiety as an activating group	Department of Chemistry, Panjab University and Centre of Advanced Studies in Chemistry, Chandigarh, UT 160014, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, India	6	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086678872&doi=10.1016%2fj.tetlet.2020.152098&partnerID=40&md5=8f973c2ab1b8205bdfc13522878db097
2744	Over-expression of Osmotin (OsmWS) gene of Withania somnifera in potato cultivar ‘Kufri Chipsona 1’ imparts resistance to Alternaria solani	Department of Biotechnology, TIFAC-Centre of Relevance and Excellence in Agro and Industrial Biotechnology (CORE), Thapar Institute of Engineering & Technology, Patiala, 147001, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084848481&doi=10.1007%2fs11240-020-01847-w&partnerID=40&md5=89b9f99ad22cb63a54afe72d5cb6eb6f
2745	Crystal structure refinement, optical properties, dielectric response, and impedance spectroscopy of Ni ²⁺ -Co ²⁺ substituted bismuth copper titanate (BCTO)	Department of Physics, School of Physical Sciences and Chemical Engineering, Lovely Professional University, Phagwara, Punjab 144411, India; Department of Physics, Faculty of Science, Federal University Dutse, P.M.B. 7156, Dutse, Jigawa State, Nigeria; Department of Applied Physics, Z.H. College of Engineering and Technology, Aligarh Muslim University, Aligarh, 202002, India; Department of Mathematics, School of Physical Sciences and Chemical Engineering, Lovely Professional University, Phagwara, Punjab 144411, India; Department of Chemistry, Guru Nanak Dev University, Amritsa, 143005, India	7	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082015995&doi=10.1016%2fj.matchemphys.2020.122933&partnerID=40&md5=34b4a800bf36b28c45dfd63485047087
2746	Performance analysis of 160 Gbit/s single-channel PDM-QPSK based inter-satellite optical wireless communication (IsOWC) system	Department of EEE, PSG College of Technology, Coimbatore, India; Electronics and Communication Engineering Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India; Division of Computational Physics, Institute for Computational Science, Ton Duc Thang University, Ho Chi Minh City, Viet Nam; Faculty of Electrical and Electronics Engineering, Ton Duc Thang University, Ho Chi Minh City, Viet Nam	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081555981&doi=10.1007%2fs11276-020-02287-2&partnerID=40&md5=2e8c688a1e9fed0edeb4cd4e7d832c31
2747	Magnetic ion oxidation state dependent magnetoelectric coupling strength in Fe doped BCT ceramics	Material Science and Characterization Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; UGC-DAE Consortium for Scientific Research, R-5 Shed, BARC, Mumbai, 400085, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086181806&doi=10.1039%2fd0ra00969e&partnerID=40&md5=0ea0147509b1a5e7d30b09ddf7558a51
2748	Effect of heat treatment on thermal and mechanical stability of NaOH-doped xanthan gum-based hydrogels	Department of Physics, Panjab University, Chandigarh, 160014, India; Department of Physics, G.G.D.S.D. College, Haryana, Hoshiarpur, 144208, India; Department of Physics, D.A.V. College, Amritsar, 143001, India; Department of Physics, D.A.V. College, Jalandhar, 144008, India; Department of Chemistry, Khalsa College, Amritsar, 143005, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India	8	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084704943&doi=10.1007%2fs10008-020-04641-y&partnerID=40&md5=0104ea659d4adf26ad259604b81a1435
2749	Rare earth-tuned oxygen vacancies in gadolinium-doped tin oxide for selective detection of volatile organic compounds	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Faculty of Chemical Technology, National Technical University of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute”, Kyiv, Ukraine	6	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083516140&doi=10.1007%2fs10854-020-03379-7&partnerID=40&md5=ba3c60626e3e5ab167f4e305c1572a6f

2750	Thermal and microwave synthesized SPIONs: Energy effects on the efficiency of nano drug carriers	School of Nano Sciences, Central University of Gujarat, Sector 30, Gandhinagar, Gujarat 382030, India; School of Life Sciences, Central University of Gujarat, Sector 30, Gandhinagar, Gujarat 382030, India; Chemistry Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India	8	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081128576&doi=10.1016%2fj.msec.2020.110792&partnerID=40&md5=67d0dbab4b662930d2638f9305b7cd82
2751	Cloud resource management using 3Vs of Internet of Big data streams	Department of Computer Science and Engineering, Guru Nanak Dev University, Amritsar, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067060101&doi=10.1007%2fs00607-019-00732-5&partnerID=40&md5=50a8392b618452a64f8c55fccbeae261
2752	Novel enterocin E20c purified from Enterococcus hirae 20c synergised with β -lactams and ciprofloxacin against Salmonella enterica	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084277019&doi=10.1186%2fs12934-020-01352-x&partnerID=40&md5=2befd407a0e73141df31a4dbb6084288
2753	Structural transformation and room temperature ammonia sensing properties of TiS2 nanostructures	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85094857482&doi=10.1007%2fs42452-020-2647-x&partnerID=40&md5=0522ed9484881814bb998766075f3d53
2754	Disentangling the reputation – performance paradox: Indian evidence	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079732827&doi=10.1108%2fJIBR-02-2018-0081&partnerID=40&md5=3a9a898e8fa1f04e076831de01e52052
2755	Therapeutic potential of brassinosteroids in biomedical and clinical research	Plant Stress Physiology Lab, Department of Botanical and Environment Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Bio-organic and Biological Chemistry, Kharkiv National Medical University, Kharkiv, 61000, Ukraine; State Key Laboratory of Subtropical Silviculture, Zhejiang A&F University, Hangzhou, 311300, China; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Agriculture, Food & Environment, University of Pisa, Via del Borghetto 80, Pisa, 56124, Italy; Interdepartmental Research Center Nutrafood “Nutraceuticals and Food for Health”, University of Pisa, Via del Borghetto 80, Pisa, 56124, Italy	7	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083384428&doi=10.3390%2fbiom10040572&partnerID=40&md5=63a8ef0545c339f6834b22ceab981c09
2756	20Gbit/s-40 GHz OFDM based LEO-GEO Radio over Inter-satellite optical wireless communication (Ro-IsOWC) system using 4-QAM modulation	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, India; Division of Computational Physics, Institute for Computational Science, Ton Duc Thang University, Ho Chi Minh City, Viet Nam; Faculty of Electrical and Electronics Engineering, Ton Duc Thang University, Ho Chi Minh City, Viet Nam	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078424329&doi=10.1016%2fj.iileo.2020.164295&partnerID=40&md5=2e1581d3e5e05ec4d87585dfdaf92a83
2757	The Match-up Between Celebrity Associations and Product Type	Faculty in Economics and Business, Guru Nanak Dev University, Amritsar, Punjab, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074966005&doi=10.1177%2f0973258619875604&partnerID=40&md5=ec127865b09e1875f3e57c6a42ddc33c
2758	Verilog-A modeling of a silicene-based p–n junction logic device: simulation and applications	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, 144007, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074557270&doi=10.1007%2fs10825-019-01410-7&partnerID=40&md5=4a6b09e68bb3148916554d1aec08778f
2759	Sustainable Supply Chain Activities and Financial Performance: An Indian Experience	Guru Nanak Dev University, Amritsar, Punjab, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074043318&doi=10.1177%2f0972262919863189&partnerID=40&md5=f57589d3ccc70eb997aabbcad55afb8
2760	Bicritical states in a vertical layer of fluid under two-frequency temperature modulation	Department of Mathematics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Mathematics, Panjab University, Chandigarh, 160014, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082094759&doi=10.1103%2fPhysRevE.101.023109&partnerID=40&md5=b587463e6efd96daf0dfde272fde1d27
2761	Nonlinear Stability of Natural Convection in an Inclined Fluid Layer	Centre for Advanced Study in Mathematics, Panjab University Chandigarh, Chandigarh, India; Department of Mathematics, Guru Nanak Dev University Amritsar, Amritsar, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078854213&doi=10.1007%2fs40819-020-0780-2&partnerID=40&md5=a47dd080bdc1adb94a1a52edd68b417f

2762	Efficient microwave synthesis, functionalisation and biocompatibility studies of SPION based potential nano-drug carriers	School of Nano Sciences, Central University of Gujarat, Sector 30, Gandhinagar, Gujarat, India; School of Life Sciences, Central University of Gujarat, Sector 30, Gandhinagar, Gujarat, India; FCIPT, Institute for Plasma Research, GIDC, Sector 25, Gandhinagar, Gujarat, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India	6	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071855044&doi=10.1007%2fs13204-019-01153-8&partnerID=40&md5=818ff8c796c0a498d0b04ed7536250ea
2763	Molecular targets in cancer prevention by 4-(methylthio)butyl isothiocyanate - A comprehensive review	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Biochemistry, Sri Guru Ram Das University of Health Science, Amritsar, 143005, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076531387&doi=10.1016%2fj.ifs.2019.117061&partnerID=40&md5=df72185c0a85b8c70814ad9774260c9c
2764	Modification of the lead molecule: Tryptophan and piperidine appended triazines reversing inflammation and hyeperalgnesia in rats	Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India; Department of Pharmaceuical Sciences, Guru Nanak Dev University, Amritsar, 143005, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076530309&doi=10.1016%2fj.bmc.2019.115246&partnerID=40&md5=8347e091e32505cd224ba2257db290b5
2765	Drug delivery through nose: A noninvasive technique for brain targeting	School of Pharmaceuical Sciences, Lovely Professional University, Phagwara, Punjab, India; Department of Pharmaceutics, National Institute of Pharmaceutical Education and Research (NIPER), Hyderabad, Telangana, India; Division of Cyclotron and Radio-pharmaceutical Sciences, Institute of Nuclear Medicine and Allied Sciences, Timarpur, Delhi, India; Khalsa College of Pharmacy, Amritsar, Punjab, India	9	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090256306&doi=10.4103%2fjrptps.JRPTPS_59_19&partnerID=40&md5=4c0f857bfd17a89ff99fdc53dcab60fc
2766	Characterization of M-type barium hexaferrite synthesized using potatoes as natural fuel	Department of Chemistry, Ugc Center for Advanced Studies-II, Guru Nanak Dev University, Amritsar Punjab, 143005, India; Analytical and Environmental Science Division and Cif, CSIR-Central Salt, Marine Chemicals Research Institute, Gijubhai Badheka Marg, Bhavnagar Gujarat, 364002, India; Department of Physics, Guru Nanak Dev University, Amritsar Punjab, 143005, India	9	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090027381&doi=10.1016%2fj.matpr.2019.12.056&partnerID=40&md5=b2b880bff7002cb7d9a2c3df6c7400bc
2767	Di-n-butyl phthalate-induced phytotoxicity in hordeum vulgare seedlings and subsequent antioxidant defense response	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085307534&doi=10.32615%2fbbp.2019.095&partnerID=40&md5=75557e437a0bd004441397f1947d4fef
2768	Comparative analysis of native and defatted flour from hard, extraordinarily soft, and medium-hard wheat varieties for protein solvation, pasting, mixing, and dough rheological behavior	Dept. of Food Science and Technology, Guru Nanak Dev Univ., Amritsar, 143005, India; Div. of Genetics, Indian Agricultural Research Inst., New Delhi, 110012, India; Dept. of Food Science and Technology, MMICM & BM (HM), Maharishi Markandeshwar (Deemed to be Univ.) Mullana, Ambala, Haryana 133203, India	7	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077021418&doi=10.1111%2f1750-3841.14944&partnerID=40&md5=258bdc3effaf9cf8cc0c712620044964
2769	First principles investigation on armchair zinc oxide nanoribbons as uric acid sensors	Electrical and Computer Engineering Department, Concordia University, Montreal, Canada; Department of Electronics and Communication Engineering, Regional Campus, Guru Nanak Dev University, Jalandhar, Punjab, India; Applied Science Department, National Institute of Technical Teachers’ Training and Research (NITTTR), Chandigarh, India; Department of Electronics and Electrical Engineering, Lovely Professional University, Phagwara, Punjab, India	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076458238&doi=10.1007%2fs00894-019-4243-9&partnerID=40&md5=8e7767fb1ad86854b8298515ad620f65
2770	Inhibition of post-mortem fish muscle softening and degradation using legume seed proteinase inhibitors	P.G. Department of Biotechnology, Khalsa College, Amritsar, Punjab 143002, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070985542&doi=10.1007%2fs13197-019-04044-6&partnerID=40&md5=f5e563710b1e7f90d3f05edac0931751
2771	Amide Tethered 4-Aminoquinoline-naphthalimide Hybrids: A New Class of Possible Dual Function Antiplasmodials	Department of Chemistry, Guru Nanak Dev University, Amritsar, Pin 143005, India; Unit� Parasitologie et Entomologie, D�partement Microbiologie et Maladies Infectieuses, Institut de Recherche Biom�dicale des Arm�es, Marseille, 13234, France; Aix Marseille Univ, IRD, SSA, AP-HM, VITROME, Marseille, 13234, France; IHU M�diterran�e Infection, Marseille, 13234, France; Centre National de R�f�rence du Paludisme, Marseille, 13234, France; School of Chemistry and Physics, University of KwaZulu-Natal, P/Bag X54001, Westville, Durban, 4000, South Africa	10	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85097823164&doi=10.1021%2facsmmedchemlett.0c00536&partnerID=40&md5=1674c2ec5cc279b93fc14c72d3cdd671

2772	Cylindrical and spherical ion acoustic shock waves with two temperature superthermal electrons in dusty plasma	Sikh National College, Banga, 144505, India; Department of Physics, DAV University, Jalandhar, 144012, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143 005, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096960433&doi=10.1140%2fepjd%2fe2020-10316-0&partnerID=40&md5=5c27d46c668b17e0704af12f054b2aa1
2773	Antagonistic effects of EDTA against biochemical toxicity induced by Cr(VI) in <i>Hordeum vulgare</i> L. seedlings	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Botany, Government Degree College Ramban, Jammu, 182144, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096601782&doi=10.1007%2fs12298-020-00908-w&partnerID=40&md5=4a048aead5ec0c016cdfbacc6d08afc
2774	From ayurvedic folk medicine to preclinical neurotherapeutic role of a miraculous herb, <i>Tinospora cordifolia</i>	Medical Biotechnology Laboratory, Department of Biotechnology, Guru Nanak Dev University, Amritsar, 143005, India; Current Address: Mood Disorders and Suicide Research Lab, Department of Psychiatry, University of Illinois at ChicagoIL 60612, United States	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85094968125&doi=10.1016%2fj.neuint.2020.104891&partnerID=40&md5=a4287102e8d476df80bc59da907c5d0a
2775	Development, characterization and evaluation of nanocarrier based formulations of antipsoriatic drug “acitretin” for skin targeting	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090228462&doi=10.1016%2fj.iddst.2020.102010&partnerID=40&md5=d07594b678842e86c4dd516263dcb56c
2776	Synthesis of novel benzocoronene tetracarboxdiimides for fluorescent imaging of latent fingerprints	Department of Chemistry, UGC Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India	1	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089673856&doi=10.1016%2fj.ipphotochem.2020.112824&partnerID=40&md5=53b966bdd387e41eed644952af8a24e2
2777	Hydro-meteorological hazards and role of ICT during 2010-2019: A scientometric analysis	Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus Gurdaspur, Punjab, 143521, India; Department of Computer Science and Informatics, Central University of Himachal Pradesh, Dharamshala, 176215, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089455437&doi=10.1007%2fs12145-020-00495-0&partnerID=40&md5=f7bacf178bc41e692978b7dd3afc54dc
2778	Post-infectional changes associated with the progression of leaf spot disease in <i>Calotropis procera</i> Aiton	Department of Botany, DAV University, Sarmastpur, Jalandhar, 44012, India; Department of Botany, Giani Kartar Singh Memorial Government College Urmur, Tanda, Hoshiarpur, 144212, India; Faculty of Agricultural Sciences, DAV University, Sarmastpur, Jalandhar, 144012, India; Department of Botany, Government Degree College, Ramban, Jammu, 182144, India; State Key Laboratory of Subtropical Silviculture, Zhejiang A & F University, Hangzhou, China; Department of Botanical and Environmental Science, Guru Nanak Dev University, Amritsar, 143005, India; Department of Botany, Doaba College, Jalandhar, 144004, India	8	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088987320&doi=10.1016%2fj.pmpp.2020.101519&partnerID=40&md5=7f983db0bf60c2c80874da3d6996f1ad
2779	Breather Structures and Peregrine Solitons in a Polarized Space Dusty Plasma	Department of Physics, Guru Nanak Dev University, Amritsar, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85097413475&doi=10.3389%2ffphy.2020.602229&partnerID=40&md5=17494d5f62e4bf4c541d19de62165817
2780	Optimization of extraction conditions of <i>Angelica archangelica</i> extract and activity evaluation in experimental fibromyalgia	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India; Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092502192&doi=10.1111%2f1750-3841.15476&partnerID=40&md5=5e1180bc9e0bd936324d36c8f55db6d6
2781	Plant growth regulators: a sustainable approach to combat pesticide toxicity	School of Bioengineering and Biosciences, Lovely Professional University, Phagwara, Punjab 144411, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botany, S.P College, Cluster University, Srinagar, Kashmir 190005, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092193045&doi=10.1007%2fs13205-020-02454-4&partnerID=40&md5=a8887e9160f76a2b8212fbd22ce5357c
2782	Zingerone produces antidiabetic effects and attenuates diabetic nephropathy by reducing oxidative stress and overexpression of NF- κ B, TNF- α , and COX-2 proteins in rats	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Pathology & Laboratory Medicine, Faculty of Medicine, University of OttawaON, Canada	8	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090840849&doi=10.1016%2fj.jff.2020.104199&partnerID=40&md5=0bb562c9fbcae3605867ec4bb088bbff
2783	Artificial Intelligence-Based Model for Drought Prediction and Forecasting	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, 143521, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090318417&doi=10.1093%2fcominl%2fbxz105&partnerID=40&md5=d286e0f2246c44b51a0fe2b4c4fe7f50
2784	Enhanced room temperature ferromagnetism in Cr and Fe co-doped SnO ₂ nanoparticles synthesized by sol-gel method	Department of Applied Sciences, Punjab Engineering College (Deemed to be University), Chandigarh, 160012, India; Amity Institute of Applied Sciences, Amity University, Noida, 201303, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089421570&doi=10.1016%2fj.vacuum.2020.109635&partnerID=40&md5=33ab0e52ede1c3d5cea145685627de1a

2785	Augmenting network lifetime for heterogenous WSN assisted IoT using mobile agent	I. K. Gujral Punjab Technical University, Kapurthala, 144603, India; Khalsa College of Engineering and Technology, Amritsar, 143001, India; Panjab University SSG Regional Centre, Hoshiarpur, 146021, India	3	2020	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087778991&doi=10.1007%2fs11276-020-02422-z&partnerID=40&md5=b8083fbc09e8e984bc31c76329d3914d
2786	Kinetic, rheological and thermal studies of flaxseed (Linum usitatissimum L.) oil and its utilization	Department of FST, Chaudhary Devi Lal University, Sirsa, India; Department of FST, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India; Department of FST, Guru Nanak Dev University, Amritsar, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084064543&doi=10.1007%2fs13197-020-04434-1&partnerID=40&md5=cc47d397e86883d3fc4548a49073d956
2787	Optical-lattice-based Cs active clock with a continual superradiant lasing signal	Department of Electronics, State Key Laboratory of Advanced Optical Communication Systems and Networks, Peking University, Beijing, 100871, China; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Beijing National Laboratory for Condensed Matter Physics, Institute of Physics, Chinese Academy of Sciences, Beijing, 100190, China; University of Chinese Academy of Sciences, Beijing, 100049, China; Atomic, Molecular and Optical Physics Division, Physical Research Laboratory, Navrangpura, Ahmedabad, 380009, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093983514&doi=10.1103%2fPhysRevA.102.041101&partnerID=40&md5=d35b0380aa1b6a3592033279d713974e
2788	Comprehensive Analysis of Band Gap and Nanotwinning in Cd1-xMgxS QDs	Department of Nanoscience and Materials, Central University of Jammu, Jammu, 181143, India; Department of Chemistry and Chemical Sciences, Central University of Jammu, Jammu, 181143, India; Department of Chemistry, Guru Nanak Dev University, Amritsar Punjab, 143005, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85095123910&doi=10.1021%2facs.cgd.0c00851&partnerID=40&md5=cf89322323f4918afcca67a72aba10ab
2789	X-Band Microwave Absorption in Nd ³⁺ -Substituted Mg-Cd Spinel Ferrites Synthesized under Microwave Sintering	Department of Physics, Yashwantrao Chavan Institute of Science (Autonomous), Satara, India; Department of Physics, Bharati Vidyapeeth Matoshree Bayabai Shreepatrao Kadam Kanya Mahavidyalaya, Kadegaon, India; Department of Physics, Kusumtai Rajarambapu Patil Kanya Mahavidyalaya, Uran Islampur, 415409, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; Department of Electronics, Shivaji University, Kolhapur, India	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092100371&doi=10.1109%2fTMAG.2020.3014057&partnerID=40&md5=7f4a14f4888fc7faa3e2bd930f92c87d
2790	Temperature-Dependent Cationic Doping-Driven Phonon Dynamics Investigation in CdO Thin Films Using Raman Spectroscopy	Atmospheric Plasma Division, Institute for Plasma Research, Gandhinagar, Gujarat, 382 428, India; Condensed Matter Theory Group, Dept. of Physics and Astronomy, Uppsala University, Box 516, Uppsala, 75120, Sweden; Department of Physics, Guru Nanak Dev University, Amritsar, 143 005, India; Inter University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110 067, India; Homi Bhabha National Institute, Mumbai, Maharashtra, 400 094, India; RDS College, Muzaffarpur, Bihar, 842 002, India; Applied Materials Physics, Department of Materials and Engineering, Royal Institute of Technology (KTH), Stockholm, S-100 44, Sweden	8	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092026251&doi=10.1021%2facs.jpcc.0c06632&partnerID=40&md5=a2618712880a4667bdadaea8f03c42dc
2791	Physico-chemical and textural (sensorial and electromyographic) evaluation of idlis formulated with brown rice and pearl millet flours	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087504001&doi=10.1007%2fs11694-020-00534-w&partnerID=40&md5=5425399a6a59e8228c2d907e8848103f
2792	Quantification of phenolic acids and antioxidant potential of wheat rusks as influenced by partial replacement with barley flour	Department of Food Science and Technology, Chaudhary Devi Lal University, Sirsa, India; Department of Food Science and Technology, Maharaja Ranjit Singh Punjab Technical University, Bathinda, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083498675&doi=10.1007%2fs13197-020-04410-9&partnerID=40&md5=0a0d211a02e5479df6d0b5ffaf418d2b
2793	In situ preparation of a nanocomposite comprising graphene and α -Fe ₂ O ₃ nanospindles for the photo-degradation of antibiotics under visible light	Department of Chemistry, University Grants Commission (UGC), Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar-Punjab, 143005, India; Department of Earth Resources Engineering, Faculty of Engineering, Kyushu University, 744 Motooka, Nishiku, Fukuoka, 819-0395, Japan; Analytical and Environmental Science Division and Centralized Instrument Facility, CSIR-Central Salt and Marine Chemicals Research Institute, G. B. Marg, Bhavnagar-Gujarat, 364002, India	7	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093646728&doi=10.1039%2fd0i03190a&partnerID=40&md5=ead592e4f132d0bf45a8e3c98d10dcb7

2794	Phenazine-Based Donor Acceptor Systems as Organic Photocatalysts for "metal-free" C-N/C-C Cross-Coupling	Department of Chemistry, UGC Centre of Advanced Study, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092154925&doi=10.1021%2facs.joc.9b03407&partnerID=40&md5=d8466f7c64c70f8ea933ecfbe3640e96
2795	Analysis of pairing phase transition in S n -isotopes within semiclassical approach	Department of Physics, Guru Nanak Dev University, Amritsar, 143 005, India; Nuclear Physics Division, Bhabha Atomic Research Centre, Mumbai, 400 08, India; Homi Bhabha National Institute, Training School Complex, Mumbai, 400 094, India; UM-DAE Centre for Excellence in Basic Sciences, Mumbai, 400 098, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85095430048&doi=10.1142%2f50218301320500718&partnerID=40&md5=2fba00efc34f0a533deb4ddb058d57a2
2796	Van der Waals coefficients of the multi-layered MoS2with alkali metals	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Atomic, Molecular and Optical Physics Division, Physical Research Laboratory, Navrangpura, Ahmedabad, 380009, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092470342&doi=10.1088%2f1402-4896%2fabae20&partnerID=40&md5=bbb299a195b6f8fdc01d78de80a440a0
2797	Characteristics of spatiotemporal dynamics of a quadruple Gaussian laser beam in a relativistic ponderomotive magnetized plasma	Department of Physics, Guru Nanak Dev University (GNDU), Amritsar, Punjab 143005, India; Regional Institute of Education, Bhubaneswar, 751022, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091851411&doi=10.1364%2fjosa.388470&partnerID=40&md5=512f739fd78a4bcd95b52a8360ece73f
2798	N-acetylgalactosaminyltransferase: A potential target for colorectal adenocarcinoma	UGC Sponsored Center for Advanced Studies, Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Uttaranchal University, Arcadia Grant, Dehradun, 248007, India; Department of Chemistry, University of Petroleum and Energy Studies, Energy Acres, Dehradun, 248007, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091527409&doi=10.4155%2ffmc-2020-0137&partnerID=40&md5=c3c20351ec14a0a62703dd2d8c7f7f73
2799	Marker-trait association identified candidate starch biosynthesis pathway genes for starch and amylose–lipid complex gelatinization in wheat (Triticum aestivum L.)	National Agri-Food Biotechnology Institute (NABI), Sector-81, SAS Nagar, Mohali, Punjab 140 306, India; Department of Food Science and Technology, Guru Nanak Dev University (GNDU), Amritsar, Punjab 143005, India; CSIR-Institute of Himalayan Bioresource Technology, Palampur, 176061, India; Department of Plant Sciences, School of Basic Sciences, Central University of Punjab, Bhatinda, Punjab 151001, India; Indian Institute of Wheat and Barley Research (IIWBR), Kunjpura Road, Karnal, Haryana 132001, India	13	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090286231&doi=10.1007%2fs10681-020-02688-6&partnerID=40&md5=678a4a7d1be32d18506527a1d97d3c0f
2800	In Silico Characterization of a Unique Plant-Like “Loopful” GH19 Chitinase from Newly Isolated Chitinophaga sp. YS-16	Department of Biotechnology, Guru Nanak Dev University Amritsar, Punjab, India; Department of Research and Development, Biotechnology, Uttaranchal University, Dehradun, India; Department Cum National Centre for Human Genome Studies and Research, Panjab University, Chandigarh, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085004566&doi=10.1007%2fs00284-020-02022-2&partnerID=40&md5=4830ab764a152df47f0d305a6c963700
2801	Diagnosis of bearing faults using multi fusion signal processing techniques and mutual information	Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat 382 007, India; Machinery Fault Diagnostics Laboratory, Department of Mechanical Engineering, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096642437&partnerID=40&md5=5e15c037fb88b3bc9dd625668dc291c9
2802	Improved Magnetic and Microwave Properties of La-Substituted Barium Hexaferrite Screen-Printed Thick Films	School of Physics and Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	7	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085062465&doi=10.1007%2fs10948-020-05494-2&partnerID=40&md5=a55431836016557d060784b2af6fd0e7
2803	An Experimental Evaluation of Link Outage Due to Beam Wander in a Turbulent FSO Link	Department of Electronics Technology, GNDU, Amritsar, 143005, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083789007&doi=10.1007%2fs11277-020-07333-y&partnerID=40&md5=cb698366c58dbe49aa4aa95740a7686d
2804	Differential effects of performance-enhancing drugs ‘Methamphetamine’ and ‘hCG’ on ex-vivo cultured primary blood mononuclear cells of male athletes	MYAS-GNDU Department of Sports Sciences and Medicine, Guru Nanak Dev University, Amritsar, Punjab 143005, India; ACBR, University of Delhi, Delhi, India; SGT University, Gurugram, Haryana, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081588205&doi=10.1007%2fs43440-020-00066-6&partnerID=40&md5=981cb4d8eb4db6a18edc72f36d13a88d
2805	Fabrication and investigation of zinc oxide nanoflowers-based piezoelectric nanogenerator	Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Mechanical Engineering, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089020619&doi=10.1049%2fiet-cds.2019.0138&partnerID=40&md5=6bfeba6c064f745bb5e402fb3b1b76ad

2806	Fault Diagnosis of Ball Bearing Using Hilbert Huang Transform and LASSO Feature Ranking Technique	Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, 382007, India; Department of Mechanical Engineering, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087076585&doi=10.1088%2f1757-899X%2f841%2f1%2f012006&partnerID=40&md5=4fd5bc347e77177ae882e2538db03ca8
2807	Something more than graphene-Futuristic two-dimensional nanomaterials	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, 144 007, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087129671&doi=10.18520%2fcs%2fv118%2fi11%2f1656-1671&partnerID=40&md5=28ad983271f0fa666da45f20d4f0febd
2808	Comparative Analysis of Neutron, Proton, Alpha and Beta Radiation Shielding Parameters of PES and PVDC	Department of Physics, Guru Nanak Dev University College Verka, Amritsar, Punjab 143005, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086410299&doi=10.1088%2f1742-6596%2f1531%2f1%2f012003&partnerID=40&md5=734db28bdadee167ae00b45db56058a3
2809	Impact of Post Cloud Computing Paradigms on IoT	Guru Nanak Dev University, Dept of Computer Engineering and Technology, Jalandhar, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093106774&doi=10.1109%2fCRITO48877.2020.9197963&partnerID=40&md5=1368091f64af7a7e1bc7b0fb3d99e2f8
2810	Enhanced performance analysis of a hybrid spectrum sliced-wavelength division multiplexing-mode division multiplexing-orthogonal frequency division multiplexing based radio-over-free space optics	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Gurdaspur, India; Division of Computational Physics, Institute for Computational Science, Ton Duc Thang University, Ho Chi Minh City, Viet Nam; Faculty of Electrical and Electronics Engineering, Ton Duc Thang University, Ho Chi Minh City, Viet Nam	3	2020	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086068926&doi=10.1002%2fett.3897&partnerID=40&md5=c29a4fec64379a7b18996b8709c16gef6
2811	Enhanced oral bioavailability and anti-diabetic activity of canagliflozin through a spray dried lipid based oral delivery: a novel paradigm	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Molecular Biology and Biochemistry, Molecular Microbiology Lab, Guru Nanak Dev University, Amritsar, 143005, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, 147002, India	7	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079218150&doi=10.1007%2fs40199-020-00330-3&partnerID=40&md5=43284f73dc09e36ba5f231be3001c646
2812	Modeling and performance investigation of 4 × 20 Gbps underwater optical wireless communication link incorporating space division multiplexing of Hermite Gaussian modes	Department of ECE, Sri Krishna College of Technology, Coimbatore, India; Electronics and Communication Engineering Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India; Department of Electronics and Communication Engineering, St. Joseph's College of Engineering, OMR, Chennai, 600119, India; Division of Computational Physics, Institute for Computational Science, Ton Duc Thang University, Ho Chi Minh City, Viet Nam; Faculty of Electrical and Electronics Engineering, Ton Duc Thang University, Ho Chi Minh City, Viet Nam	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084190319&doi=10.1007%2fs11082-020-02380-y&partnerID=40&md5=33502f510ec0c3115f81e1881ccfd23f
2813	Spatiotemporal evolution of Gaussian laser pulse in weakly relativistic magnetized cold quantum plasma	Department of Physics, DAV University, Sarmastpur, Jalandhar 144301, India; Research Scholar IKG Punjab Technical University, Jalandhar, 144603, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081259016&doi=10.1016%2fj.ijleo.2019.163137&partnerID=40&md5=ffb066e8030a8cc6ebe20aa5b5ea71d3
2814	Influence of sprouting on phenolic composition and starch characteristics of lentil and horse gram	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076374693&doi=10.1111%2fjifs.14423&partnerID=40&md5=37cb6cd8b81ab82b28eb8120537370a4
2815	Preliminary studies of the effect of doping of chromium oxide in SiO2 CaO-P2O5 bioceramics for bone regeneration applications	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Molecular Biology & Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077646628&doi=10.1016%2fsaa.2019.118000&partnerID=40&md5=07f0d5567e5417664064e49c3bd6d251
2816	Analysis of uric acid adsorption on armchair silicene nanoribbons: a DFT study	Department of Electrical and Computer Engineering, Concordia University, Montreal, Canada; Department of Electronics and Communication Engineering, Guru Nanak Dev University Regional Campus, Jalandhar, Punjab, India; Applied Science Department, National Institute of Technical Teachers' Training and Research (NITTTR), Chandigarh, India; Department of Electronics and Electrical Engineering, Lovely Professional University, Phagwara, Punjab, India	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85080146282&doi=10.1007%2fs00894-020-4313-z&partnerID=40&md5=d14f9ca667842b876cc9f9f820bbab81

2817	Sulforaphane Attenuates A β Oligomers Mediated Decrease in Phagocytic Activity of Microglial Cells	Department of Biotechnology, National Institute of Pharmaceutical Education and Research – Ahmedabad, Gandhinagar 382355, Gujarat, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar 143005, Punjab, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078442571&doi=10.1016%2fj.neuroscience.2020.01.002&partnerID=40&md5=4c6717b8ed1633e7c9709ac8228fd0c
2818	Cadmium stress responses in Brassica juncea L. Plants through histochemical and qualitative approaches	Department of Botany, School of Bioengineering and Biosciences, Lovely Professional University, Phagwara-Punjab, 144411, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar-Punjab, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086166453&partnerID=40&md5=fa676b788b84aa79e1b55ea2b5257d07
2819	Azide-alkyne cycloaddition en route to ferrocenyl-methoxy-methyl-isatin-conjugates: Synthesis, anti-breast cancer activities and molecular docking studies	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; School of Molecular and Cell Biology, University of the Witwatersrand, Private Bag 3, Wits, Johannesburg, 2050, South Africa; School of Chemistry and Physics, University of KwaZulu Natal, P/Bag X54001, Westville, Durban, 4000, South Africa	10	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076253345&doi=10.1016%2fj.jorganchem.2019.121072&partnerID=40&md5=72416300a701e5513dcb84d62d5b8752
2820	E-mail viral marketing: modeling the determinants of creation of “viral infection”	Department of Business Management, Guru Nanak Dev University Regional Campus, Gurdaspur, India; University Business School, Guru Nanak Dev University, Amritsar, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064516966&doi=10.1108%2fjmd-03-2017-0215&partnerID=40&md5=9ae0f8113ba2d5e7d572fd945d040b5
2821	Manganese and Zinc Doped CaO-SiO ₂ -P ₂ O ₅ Bioceramics for Recovery from Bone Defects	Department of Physics, Guru Nanak Dev University, Amritsar, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078962269&doi=10.1080%2f10584587.2019.1674973&partnerID=40&md5=5fc64cc593a38157e516ace32000ebcd
2822	A Gene Expression Data Classification and Selection Method using Hybrid Meta-heuristic technique	PG Department of Computer Science and Applications, Khalsa College, Amritsar, India	1	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85099553143&doi=10.4108%2fj2feai.13-7-2018.159917&partnerID=40&md5=5d359c6c34bfc14bb6758bd4d02ebdccc
2823	Understanding community participation and engagement in open source software Projects: A systematic mapping study	Department of Computer Science, Guru Nanak Dev University Amritsar143005, India; Department of Computer Engineering and Technology, Guru Nanak Dev University Amritsar143005, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85095828964&doi=10.1016%2fj.iksuci.2020.10.020&partnerID=40&md5=1a297c1891a0c93375075ff5c7830874
2824	Advances in coordination chemistry of hexaurea complexes of chromium(III)	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Chemistry, Maharishi Markandeshwar University, Sadopur-Ambala, Haryana, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85095737383&doi=10.1080%2f00958972.2020.1836363&partnerID=40&md5=1101d2f4ba442ca4f53ae66ad030f2e1
2825	A middleware for polyglot persistence and data portability of big data PaaS cloud applications	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, 143001, India; Department of Computer Science and Applications, Guru Nanak Dev University, Amritsar, 143001, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090977535&doi=10.32604%2fcm.2020.011535&partnerID=40&md5=b842369248d51201501317188932158e
2826	Plant-microbe interactions under adverse environment	Plant Stress Physiology Lab, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; School of Biotechnology and Biosciences, Lovely Professional University, Jalandhar, India; Department of Biotechnology, Modern College of Arts, Science and Commerce, Ganeshkhind, Savitribai Phule Pune University, Pune, India; Department of Microbiology, D.A.V University, Sarmastpur, Jalandhar, Punjab, India; Department of Zoological Sciences, Guru Nanak Dev University, Amritsar, India; Department of Botany, School of Life Sciences, Satellite Campus Kargil, University of Kashmir, Srinagar, Jammu and Kashmir, India; Department of Biotechnology, D.A.V College, Amritsar, Punjab, India	10	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089647667&doi=10.1007%2f978-981-15-2156-0_26&partnerID=40&md5=6bcc394c0418ff6068c885b2a3733bf1
2827	Antioxidant system and plant cross-adaptation against metal excess and other environmental stressors	Dokuchaev Kharkiv National Agrarian University, Kharkiv, Ukraine; Karazin Kharkiv National University, Kharkiv, Ukraine; Ukrainian Association for Haemophilia and Haemostasis ‘Factor D’, Topol-3/20/2, Dnipro, Ukraine; Department of Botanical and Environment Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089043698&partnerID=40&md5=3b257260d6956be38704816b65a25fcd
2828	Impact of transition metal oxidation state on the multiferroic properties and magnetoelectric coupling strength of BST ceramics	Material Science and Characterization Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, India; UGC-DAE Consortium for Scientific Research, R-5 shed, BARC, Mumbai, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088009871&doi=10.1080%2f21870764.2020.1793473&partnerID=40&md5=eccecc581660b7b530ff42bf935ea29da
2829	Comparison of anthropometric profile and handgrip strength between inter-university volleyball players and a reference group	Department of Physiotherapy, School of Allied Health Sciences, Sharda University, Greater Noida (U.P.), 201306, India; Department of Physiotherapy, Guru Nanak Dev University, Punjab, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083739296&doi=10.2478%2fbhk-2020-0011&partnerID=40&md5=f11e1d098883772614398e57b19cb81f

2830	Do Female Directors Signal Indian SME IPOs Quality? Evidence From a Quantile Regression Approach	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082950799&doi=10.1177%2f0972150920911806&partnerID=40&md5=e31ecaa230b97bf58e08f0920ad017e1
2831	Integer Wavelet Transform-Based ECG Steganography for Hiding Patients' Confidential Information in e-Healthcare Systems	Department of Electronics and Communication Engineering, National Institute of Technology, Jalandhar, 144011, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, 144007, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081343611&doi=10.1007%2f978-981-15-0751-9_48&partnerID=40&md5=618117f3455d150edb9511e1059f06f1
2832	Farmers' awareness level towards solar energy products	University Business School, Guru Nanak Dev University, Amritsar, Punjab, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081032495&doi=10.37200%2fIJPR%2fV24I1%2fPR200140&partnerID=40&md5=e29aa6a0ce4a1b3dbcc8cc1bc27a30d2
2833	DNA damage in spleen as a indicator of genotoxicity in Channa punctatus exposed to 4-nonylphenol	Department of Fisheries, Dr. G.C. Negi College of Veterinary and Animal Sciences, Chaudhary Sarwan Kumar Himachal Pradesh Krishi Vishvavidyalaya, Palampur, 176 062, India; Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Veterinary Medicine, Dr. G.C. Negi College of Veterinary and Animal Sciences, Chaudhary Sarwan Kumar Himachal Pradesh Krishi Vishvavidyalaya, Palampur, 176 062, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85080053604&doi=10.22438%2fieb%2f41%2f1%2fMRN-1099&partnerID=40&md5=f1313cb72e2283d96b57fb664700a22e
2834	Proactively managing clones inside an IDE: a systematic literature review	Department of Computer Science, Guru Nanak Dev University, Amritsar, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078960308&doi=10.1080%2f1206212X.2020.1720952&partnerID=40&md5=b1ff057a766697dd3178fd2f4fb1ca20
2835	Taxonomy of routing protocols in wireless sensor networks: A survey	Department of Applied Sciences – Computer Applications, I. K. Gujral Punjab Technical University, Kapurthala, 144603, India; Department of Computer Science and Engineering, Khalsa College of Engineering & Technology, Amritsar, 143001, India; Department of Computer Science and Engineering, P.U. Swami Sarvanand Giri Regional Centre, Hoshiarpur, 146021, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078305685&partnerID=40&md5=bce77c08d9e2d5381c176a104aec4783
2836	Elucidating physiological and biochemical alterations in giant duckweed (Spirodela polyrhiza L. Schleiden) under diethyl phthalate stress: Insights into antioxidant defence system	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078032910&doi=10.7717%2fpeeri.8267&partnerID=40&md5=30a8e5b4de207883ba5f32a906ff5f07
2837	Synthetic strategies in curcumin chemistry focused on anticancer applications	SynBioC Research Group, Department of Green Chemistry and Technology, Faculty of Bioscience Engineering, Ghent University, Coupure Links 653, Ghent, B-9000, Belgium; Department of Food Technology, Safety and Health, Faculty of Bioscience Engineering, Ghent University, Coupure Links 653, Ghent, B-9000, Belgium; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85115005154&doi=10.24820%2fARK.5550190.P011.314&partnerID=40&md5=dd15df95c6390decd363818b7a7e5f4
2838	Structural transformation of Punjab agriculture and its environmental implications	Post-Graduate Department of Economics, DAV College, Jalandhar, Punjab, 144008, India; Punjab School of Economics, GNDU, Amritsar, Punjab, 143005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85111159114&doi=10.35716%2fIJED%2f20036&partnerID=40&md5=df15c369c26ec9f29de9be03370ab42c
2839	Subject mapping of Punjabi language books: A bibliometric study	Department of Library and Information Science, Guru Nanak Dev University, Amritsar, India; Department of Library and Information Science, University of Delhi, Delhi, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85099797479&partnerID=40&md5=6b0402b7f4d115e755bb2bdb6dff3e0a
2840	Performance analysis of 80 Gbps Ro-FSO system by incorporating hybrid WDM-MDM scheme	Department of ECE, Sathyabama Institute of Science and Technology, Chennai, India; Electronics Technology Department, Guru Nanak Dev University, Amritsar, India; Electronics and Communication Engineering Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85095598803&doi=10.1007%2fs11082-020-02613-0&partnerID=40&md5=873a31b20d37628e46e3faa8a233bce3
2841	(p,N)-Policy for Unreliable Server Bulk Queue with Bernoulli Feedback	Department of Mathematics, Indian Institute of Technology Roorkee, Roorkee, 247667, India; Department of Mathematics, Guru Nanak Dev University, Amritsar, 143005, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85095131423&doi=10.1007%2fs40819-020-00912-4&partnerID=40&md5=1385d4fd937ae556e97c8350523fa8a
2842	A high-speed single-channel inter-satellite optical wireless communication link incorporating spectrum-efficient orthogonal modulation scheme	Department of Engineering and Technology, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India; Division of Computational Physics, Institute for Computational Science, Ton Duc Thang University, Ho Chi Minh City, Viet Nam; Faculty of Electrical and Electronics Engineering, Ton Duc Thang University, Ho Chi Minh City, Viet Nam	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091957609&doi=10.1002%2fmop.32511&partnerID=40&md5=66b7bf5e49ad7d9d155ff7da5c836c35

2843	Fabrication of composite material based nanogenerator for electricity generation enhancement of food waste by-product	Department of Electronics Engineering, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Mechanical Engineering, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089819995&doi=10.1016%2fj.matchemphys.2020.123331&partnerID=40&md5=9909217f75cf43d1c8d49ba5dde3a2a1
2844	Modeling the protein-nucleic acid base interactions through hydrogen-bonded complexes of N-heterocyclic analogs of Indene with amino acid side-chain mimics	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089082840&doi=10.1007%2fs11224-020-01600-1&partnerID=40&md5=8ee064bc463d9a0e132a11f997417f22
2845	Personal Cognitive Factors Affecting Career Aspirations of Women Working in Financial Sector in India	University School of Financial Studies, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Commerce, Bebe Nanaki University College, Mithra (Kapurthala), Punjab, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086514016&doi=10.1177%2f0972262920931344&partnerID=40&md5=48b6dc6c9953ffabc9c527e2ddfa784f
2846	Borospherene molecular junction-based sensor for detecting radium and radon in water	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85094634436&doi=10.1557%2fjmr.2020.205&partnerID=40&md5=d6dcb2609512fb5c399abbc7480a971e
2847	In situ high pressure neutron diffraction and Raman spectroscopy of 20BaO-80TeO2glass	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; UGC-DAE-Consortium of Scientific Research, University Campus Khandwa Road, Indore, 452001, India; Isis Neutron and Muon Facility, Rutherford Appleton Laboratory Chilton, Oxon, OX11 0QX, United Kingdom	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85097178722&doi=10.1039%2fd0ra07867k&partnerID=40&md5=2c3a636c22a15f2269d5c3b03ceff870
2848	Unraveling the binding and micellization behavior of dioctylsulfosuccinate Sodium Salt with vitamin B1 and B6: A physiochemical and computational study	Department of Chemistry, UGC Sponsored Centre of Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088858654&doi=10.1016%2fj.colsurfa.2020.125324&partnerID=40&md5=c0170084489751dfc552fca25414f168
2849	"Metal-Free" Nanoassemblies of AIEE-ICT-Active Pyrazine Derivative: Efficient Photoredox System for the Synthesis of Benzimidazoles	Department of Chemistry, UGC Centre of Advanced Study-II Guru Nanak Dev University, Amritsar, Punjab, 143005, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096159319&doi=10.1021%2facs.joc.0c01965&partnerID=40&md5=0601d1b339fa5681693964a8206ad060
2850	Structural and thermal properties of magnesium tellurite glasses	Sensors and Glass Physics Laboratory, Department of Physics Guru Nanak Dev University, Amritsar, Punjab, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096598119&doi=10.1063%2f5.0017748&partnerID=40&md5=32084ff7d7e790fca803935e04720fa9
2851	Determinants of oversubscription of SME IPOs in India: evidence from quantile regression	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089991034&doi=10.1108%2fapjba-05-2020-0160&partnerID=40&md5=39114bda80fcdc759d25dd131459a5d4
2852	Comparison of ambient air pollution levels of Amritsar during foggy conditions with that of five major north Indian cities: multivariate analysis and air mass back trajectories	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Dr. SSB University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, India; Centre for Climate Change Research, Indian Institute of Tropical Meteorology, Pune, Maharashtra, India; Department of Environmental Sciences, Central University of Jammu, Jammu, India; Department of Environmental Sciences, Central University of Himachal Pradesh, Dharamshala, Himachal Pradesh, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Civil Engineering, Indian Institute of Technology, Kanpur, India; Environmental Sciences and Biomedical Metrology Division, CSIR-National Physical Laboratory, New Delhi, India	12	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85098687038&doi=10.1007%2fs42452-020-03569-2&partnerID=40&md5=92a8bec54d42cd54b007939a8428fe0d
2853	Novel Use of Trypan Blue Dye to Stain Fungus in Corneal Scrapings in Eye Clinics	Department of Ophthalmology, Sri Guru Ram Das Institute of Medical Sciences and Research, Amritsar, Punjab, India; Department of Ophthalmology, Amritsar Eye Hospital, Amritsar, Punjab, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Microbiology, Government Medical College, Amritsar, Punjab, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092681692&doi=10.1097%2fjco.0000000000002446&partnerID=40&md5=f77a1b10292d8a6886cf4dd8bd4e1642

2854	Complex permittivity and complex permeability characteristics of Co–Ti doped barium strontium hexaferrite/paraffin wax composites for application in microwave devices	School of Electronics and Electrical Engineering, Lovely Professional University, Phagwara, Punjab, India; Institute for Multidisciplinary Research, University of Belgrade, Belgrade, 11030, Serbia; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Physics, Telecommunications and Materials, Science and Engineering Laboratory (LOCEM), Federal University of Ceara-UFC, Fortaleza, Brazil; School of Electronic Science and Engineering, Xi'an Jiaotong University, Xi'an, 710049, China; National University of Science and Technology MISIS, Leninsky Av 4, Moscow, 119049, Russian Federation; South Ural State University, Lenin Av 76, Lenin Prospect, Chelyabinsk, 454080, Russian Federation; Scientific-Practical Materials Research Centre of NAS of Belarus, P. Brovki str 19, Minsk, 220072, Belarus; Institute of Physics, Mathematics & IT, Immanuel Kant Baltic Federal University, A. Nevskogo str 14, Kaliningrad, 236041, Russian Federation; Department of Electronics and Communication Engineering, Yadavindra College of Engineering, Punjabi University Guru Kashi Campus, Talwandi Sabo, Punjab, India	9	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092398841&doi=10.1007%2fs00339-020-04016-0&partnerID=40&md5=c89f5dee01830e58e27cff788a1452bd
2855	X-ray photoelectron spectra and electronic structure of Mo doped V2O5	College of Science, Institute of Materials Physics and Chemistry, Nanjing Forestry University, Nanjing, 210037, China; Institute of Physics and Technology, Ural Federal University, Mira 19 str., Yekaterinburg, 620002, Russian Federation; Sensors and Glass Physics Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; M. N. Mikheev Institute of Metal Physics of Ural Branch of Russian Academy of Sciences, S. Kovalevskoi 18 str., Yekaterinburg, 620108, Russian Federation	7	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092080138&doi=10.1016%2fj.tsf.2020.138360&partnerID=40&md5=53d1fdeb633a9f96ae93994582f12753
2856	A Smart Disaster Management Framework for Wildfire Detection and Prediction	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Hardochanni Road, Gurdaspur, Punjab, 143521, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091352607&doi=10.1093%2fcominl%2fbxz091&partnerID=40&md5=2cd93d9fd4b36c2411ff6b65add07968
2857	Di-2-pyridylketone-N1-substituted thiosemicarbazone derivatives of copper(II): Biosafe antimicrobial potential and high anticancer activity against immortalized L6 rat skeletal muscle cells	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Botanical & Environmental sciences, Guru Nanak Dev University, Amritsar, 143 005, India; School of Chemistry and Biochemistry, Thapar Institute of Engineering and Technology, Patiala, 147004, India; Department of Chemistry, Keene State College, Keene, NH 03435, United States	9	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090414551&doi=10.1016%2fj.iinorgbio.2020.111205&partnerID=40&md5=50605906a6ffa99e22bad1650c3b43ee
2858	Identification of host factors limiting the overexpression of recombinant Cu, Zn superoxide dismutase in Escherichia coli	Biotechnology Division, CSIR-Institute of Himalayan Bioresource Technology, Palampur, Himachal Pradesh 176061, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087662340&doi=10.1007%2fs10529-020-02962-6&partnerID=40&md5=adc96fb6e464ba6f7503c6a7db72f07b
2859	Excitation induced enhancement of spectral response and energy transfer mechanisms in Fe/Sm modified ZnO phosphors	Department of Physics, Guru Nanak Dev University, Punjab, Amritsar, 143001, India; CSIR-National Physical Laboratory, New Delhi, 110012, India; National Synchrotron Radiation Research Center, Hsinchu Science Park, Hsinchu, 30076, Taiwan; Department of Physics, Tamkang University, Tamsui, Taiwan; Inter University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India	10	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093946294&doi=10.1063%2fj.pestbp.2020.104647&partnerID=40&md5=f543f9936de0d10357a71b051ca9179a
2860	Influence of phase transformation on structure–property relationship in quaternary In10Sb10Ag10Se70 chalcogenide films	Department of Physics, GND University, Amritsar, 143005, India; Department of Physics, DAV University, Jalandhar, 144012, India; Material Science Division, Inter University Accelerator Centre, New Delhi, India	6	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089312622&doi=10.1007%2fs10854-020-04191-z&partnerID=40&md5=059cef4bb0b40fdabfc99fb4b30b488f
2861	Deterioration of digestive physiology of Bactrocera cucurbitae larvae by trypsin inhibitor purified from seeds of Mucuna pruriens	Department of Zoology, Guru Nanak Dev University AmritsarPunjab 143005, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University AmritsarPunjab 143005, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089007105&doi=10.1016%2fj.pestbp.2020.104647&partnerID=40&md5=901a818e620e5263068dedd427cfd72b
2862	A game theoretic approach for conflict resolution in argumentation enabled social IoT networks	Dept of CSE; GNDU, RC, Jalandhar	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086738520&doi=10.1016%2fj.adhoc.2020.102222&partnerID=40&md5=0320b46c02950e1c183ed09d309b5df7

2863	Determinants of Diffusion and Adoption of ATM cum Debit Cards in Indian Banking Sector	Department of Commerce, PG Government College (Hisar) District, Hissar, Haryana, India; Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070306512&doi=10.1177%2f0972150919856960&partnerID=40&md5=3f7d784ebe2b105ac9b586fe256f560d
2864	Behavioral intentions of heritage tourists: Influential variables on recommendations to visit	The University School of Financial Studies, Guru Nanak Dev University, Amritsar, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075528088&doi=10.1080%2f1743873X.2019.1692852&partnerID=40&md5=e5b6f5b270e0acba9ab5e53bd77a14e4
2865	Convex linear metric spaces are normable	Department of Mathematics, Guru Nanak Dev University, Amritsar, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85104436482&doi=10.1007%2fs41478-019-00185-1&partnerID=40&md5=a12f6f98685e2707a4394753991f70c4
2866	Bioconversion of different organic waste into fortified vermicompost with the help of earthworm: A comprehensive review	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Zoology, Khalsa College, Amritsar, Punjab, India; Division of Biotechnology, Punjab State Council for Science and Technology, Chandigarh, India; River Basin Research Center, Gifu University, 1-1 Yanagido, Gifu, Japan	7	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85099383805&doi=10.30486%2fiirowa.2020.1893367.1037&partnerID=40&md5=1d644a4755ea199a7d0499cd8b7b294d
2867	An Improved Regression Type Estimator of Population Mean with Two Auxiliary Variables in Stratified Double Sampling	Department of Mathematics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085874921&doi=10.1007%2fs42519-020-00107-6&partnerID=40&md5=cc865e929ac2ee60f41ad5e67a18341b
2868	Corrected estimator of sensitive population proportion using unknown repeated trials in the unrelated question randomized response model	Department of Mathematics, Guru Nanak Dev University, Amritsar, Punjab, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85080875380&doi=10.1002%2fbimj.201900334&partnerID=40&md5=ecd022ecb9caae161bc987a66ec43929
2869	Genetic portrait of North-West Indian population based on X chromosome Alu insertion markers	Department of Anthropology, Panjab University, Chandigarh, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India; Icahn School of Medicine at Mount Sinai, Tisch Cancer Institute, 1470 Madison Avenue, New York, NY, United States; Wildlife Institute of India, Dehradun, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076819680&doi=10.1007%2fs00414-019-02238-3&partnerID=40&md5=113ca9f31faaf4241fbb3cf77396efd
2870	Development, Characterization and Evaluation of Parenteral Formulation of Diclofenac Sodium	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089032444&doi=10.1208%2fs12249-020-01729-6&partnerID=40&md5=17dddf02f71608f7ae7b711aebb8ba9
2871	Synthesis and characterization of novel amphiphilic tamarind seed xyloglucan-octenyl succinic anhydride conjugate	Department of Bio & NanoTechnology, Guru Jambheshwar University of Science & Technology, Hisar, Haryana 125001, India; Department of Pharmaceutical Sciences, Guru Jambheshwar University of Science & Technology, Hisar, 125001, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India; DHR-ICMR, Ministry of Health & Family Welfare, Government of India, New Delhi, India	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088526062&doi=10.1007%2fs10965-020-02195-1&partnerID=40&md5=4f7ebfce51cbd1eecfdb10c480c497a9
2872	Screening of rhizomes of Rheum emodi Wall. Ex. Meissen for antimutagenic potential employing Ames assay	PG Department of Botany, Hans Raj Mahila Maha Vidyalaya, Jalandhar, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Institute of Himalayan Bioresource Technology, Palampur, Himachal Pradesh, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079445125&doi=10.1007%2fs13237-020-00309-0&partnerID=40&md5=bf8ec4d7f6a4e025b00a60e10708c71d
2873	The Role of Personality in Influencing Work–Family Balance Experience: A Study of Indian Journalists	Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049771623&doi=10.1177%2f0972150918779157&partnerID=40&md5=73ee31de0ceb1620af3cf40fb437c68f
2874	Analysis of micellar, thermodynamic and structural parameters of gemini surfactants in aqueous solutions of vitamins	Department of Chemistry, Lyallpur Khalsa College, Jalandhar, Punjab 144001, India; Department of Chemistry, Gandhi Memorial National College, Ambala Cantt., Haryana 133001, India; Department of Chemistry, UGC-Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084658138&doi=10.1016%2fj.molliq.2020.113237&partnerID=40&md5=d829e101d41bf72e6dfe4309da75d7e

2875	Characterization and measurement of nanostructured copper-based electromagnetic wave absorber	Electronics and Communication Engg. Department, SLIET Logowal, Sangrur, India; Electrical and Instrumentation Engg. Department, SLIET Logowal, Sangrur, India; Electronics and Communication Department, GNDU, Amritsar, India; Analytical Chemistry Nanotechnology, Department of Chemistry (PG Studies), Shree Velagapudi Ramakrishna Memorial College, Guntur, India; Analytical Chemistry Nanotechnology, PG Department of Chemistry, Dharma Appa Rao College, Nuzvid, India; Rasakalpa AITDC Laboratory, Kandukur, India	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087144735&doi=10.1080%2f02726343.2020.1780375&partnerID=40&md5=6532d9a21a45c342321fb20b8f8e54d9
2876	Molecular identification and phylogenetic relationship of Demodex mites based on mitochondrial 16S rDNA	Sri Guru Ram das Institute of Medical Science and Research, Amritsar, India; Department of Zoology and Environmental Sciences, Punjabi University, Patiala, Punjab, India; Molecular Microbiology Lab, Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, India	6	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85100343860&doi=10.4103%2ftp.TP_76_19&partnerID=40&md5=886e29468e5a219bb764d4fe37a8fd2f
2877	Punjabi adaptation of WHO's global physical activity questionnaire (GPAQ) in gurumukhi script: A validity and reliability study	Department of Physical Education, Apeejay College of Fine Arts, Jalandhar, Punjab, India; Department of Physical Education (T), Guru Nanak Dev University, Amritsar, Punjab, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088511236&partnerID=40&md5=f135e9d8a553c5d321f9e5d76e24543a
2878	Insecticidal effects of phenolic compounds on the development of polyphagous spodoptera litura larvae	Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087931469&doi=10.26651%2fallelo.i%2f2020-50-2-1283&partnerID=40&md5=0d8aedc7a2868f92721ee906d380e0ac
2879	Adenine based molecular junction as biosensor for detection of toxic phosgene gas	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086236839&doi=10.1007%2fs00894-020-04427-z&partnerID=40&md5=757f8638fc87fc7b3bf0130a41e69731
2880	Assessment of genotoxic and biochemical effects of purified compounds of Alpinia galanga on a polyphagous lepidopteran pest Spodoptera litura (Fabricius)	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Natural Products, National Institute of Pharmaceutical Education and Research (NIPER), S.A.S. Nagar, Mohali, Punjab 160062, India	7	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085325833&doi=10.1007%2fs12600-020-00813-8&partnerID=40&md5=9bda41bcf254cc47e90c1a7aaf981755
2881	Soft-computing-centric framework for wildfire monitoring, prediction and forecasting	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074751962&doi=10.1007%2fs00500-019-04477-3&partnerID=40&md5=2f9e9fc3201994275ee9f98f16130fd8
2882	Structural, dielectric, reflection and optical characteristics of the rare-earth (Yb, Er, Dy and Eu) substituted M-phase Li1+x-yNb1-x-3yTi-x-yO3 solid solutions	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078948543&doi=10.1016%2fj.iallcom.2020.153979&partnerID=40&md5=0db59692631c70bc523113f69ba78c04
2883	Gamma-ray, Neutron and Beta Radiation Shielding Properties of Bi2O3-Li2O-MnO2-B2O3 Glasses	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, Guru Nanak Dev University College Verka, Amritsar, 143501, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086374667&doi=10.1088%2f1742-6596%2f1531%2f1%2f012043&partnerID=40&md5=c10fa4e29f81970e415b906ddec54c0
2884	Structural and Dielectric Properties of Cr3+-Cu2+ Substituted Cobalt Ferrites	Department of Physics, School of Physical Sciences and Chemical Engineering, Lovely Professional University, Phagwara, Punjab 144411, India; Department of Physics, Sa'adatu Rimi College of Education, P.M.B. 3108, Kumbotso, Kano State, Nigeria; Department of Physics, Faculty of Science, Federal University Dutse, P.M.B. 7156, Jigawa State, Dutse, Nigeria; Department of Science Education, Faculty of Arts and Education, Bauchi State University, Gadau P.M.B. 65, Itas, Gadau, Bauchi State, Nigeria; Department of Chemistry, School of Physical Sciences and Chemical Engineering, Lovely Professional University, Phagwara, Punjab 44411, India; Department of Electronics and Communication, Guru Nanak Dev University, Amritsar, 143005, India	10	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086373883&doi=10.1088%2f1742-6596%2f1531%2f1%2f012029&partnerID=40&md5=ee9047d4fc32c89723beccd4e92b6332
2885	Quantitative analysis of rosuvastatin calcium in bulk and solid pharmaceutical dosage forms using green and rapid fourier-transform infrared spectroscopic method	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143 005, India; Kota College of Pharmacy, Kota, Rajasthan, 325 003, India; Laureate Institute of Pharmacy, Kathog, Kangra, Himachal Pradesh, 177 101, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85095788742&partnerID=40&md5=533243f47b2889fb45a8fee793a18207

2886	Chemical constituents and biological activities of genus picrorhiza: An update	Department of Chemistry, M.M. University, Sadopur-Ambala, Haryana, 134 007, India; M. M. College of Pharmacy, M. M. University, Mullana, Haryana, 133 203, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85095744927&partnerID=40&md5=74192ca99de15fcd015c105bce0b181
2887	Augmenting Banking and FinTech with Intelligent Internet of Things Technology	Guru Nanak Dev University Regional Campus, Department of Computer Science and Engineering, Punjab, Jalandhar, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093071634&doi=10.1109%2fICRITO48877.2020.9198018&partnerID=40&md5=b64a608acda0f1adb609e7f28649e97f
2888	Design and fabrication of hexagonal antenna for wireless applications	Dept. of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	2	2020	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-850918453508&doi=10.1007%2fs41870-018-0234-9&partnerID=40&md5=4feb4ddea0463b396d6a1a6184e33400
2889	Binding ability of sodium valproate with cationic surfactants and effect on micellization: calorimetric, surface tension, light scattering and spectroscopic approach	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075246255&doi=10.1007%2fs10973-019-09036-4&partnerID=40&md5=c81456de865fe54f51c423f91b03e069
2890	Aquatic plant diversity and physicochemical characteristics of headwater stream Bal Ganga, Garhwal Himalaya	Department of Environmental Sciences, H.N.B. Garhwal University (A Central University), Srinagar, Garhwal, Uttarakhand 246174, India; Department of Environmental Sciences, Babasaheb Bhimrao Ambedkar University (A Central University), Vidya Vihar, Raebareli Road, Lucknow, Uttar Pradesh 226025, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072108960&doi=10.1007%2fs10668-019-00392-7&partnerID=40&md5=22d709bf0cf28639a28e2f39a9b3efb6
2891	Schizophyllum commune induced oxidative stress and immunosuppressive activity in Spodoptera litura	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085622322&doi=10.1186%2fs12866-020-01831-6&partnerID=40&md5=330e88285b7a3c6f827e29e83c1b5465
2892	Characterization of Cu2+ and Zn2+ binding sites in SUMO1 and its impact on protein stability	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Institute of Microbial Technology, Sector 39A, Chandigarh, India; Centre of Biomedical Research, Sanjay Gandhi Post-Graduate Institute of Medical Sciences Campus, Raibareli Road, Lucknow, Uttar Pradesh 226014, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	8	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079658558&doi=10.1016%2fj.jbiomac.2020.02.116&partnerID=40&md5=da0c0a720e3bb084dcdc8da524aba112
2893	Effect of Religiosity and Moral Identity Internalization on Prosocial Behaviour	Department of Psychology, Guru Nanak Dev University, Amritsar, Punjab, India	1	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081542518&doi=10.1177%2f0971685820901402&partnerID=40&md5=89c5acc0229cfbb2d4724f11ee033a9c
2894	Association study of the single-nucleotide polymorphisms -3971G/A and +276G/T in the adiponectin gene with type 2 diabetes in a North Indian Punjabi population	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075454663&doi=10.1111%2fahg.12366&partnerID=40&md5=40cda32a7903d4de1af8a8746d8836a7
2895	First principle approach to elucidate transport properties through l-glutamic acid-based molecular devices using symmetrical electrodes	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081212611&doi=10.1007%2fs00894-020-4323-x&partnerID=40&md5=5bbcfa6f60240edd661e35cb6f2621d0
2896	Accurate determination of energy levels, hyperfine structure constants, lifetimes and dipole polarizabilities of triply ionized tin isotopes	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, Wuhan Institute of Physics and Mathematics, Chinese Academy of Sciences, Wuhan, 430071, China; Atomic, Molecular and Optical Physics Division, Physical Research Laboratory, Navrangpura, Ahmedabad, 380009, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082679202&doi=10.1088%2f1361-6455%2fab68b7&partnerID=40&md5=3dbafa3bf3c6a8e8afa13369420439bd
2897	Nano cuboids: Impact of 8-hydroxyquinoline on tryptophan properties and its applications	Department of Chemistry, UGC Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079148708&doi=10.1016%2fjt.tetlet.2020.151698&partnerID=40&md5=16593fa08a8521f49c20d979d505757f
2898	Rhodium-catalysed chemo- and regio-selective [3 + 2+2] cycloadditions of bis(methylenecyclopropanes) and alkynes: Synthesis of spirocyclic 5–7 condensed cycloheptenes	Department of Chemical Sciences, I. K. Gujral Punjab Technical University, Kapurthala, India; Drug Discovery Research Center, Translational Health Science and Technology Institute, Faridabad, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079242931&doi=10.1080%2f00397911.2020.1720738&partnerID=40&md5=594766122594b756c1bb82baf18e80ea

2899	Antiproliferative Effects of Roylea cinerea (D. Don) Baillon Leaves in Immortalized L6 Rat Skeletal Muscle Cell Line: Role of Reactive Oxygen Species Mediated Pathway	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Pathology and Laboratory Medicine, Faculty of Medicine, University of Ottawa, Ottawa, ON, Canada; Department of Biochemistry, Sri Guru Ram Das University of Health Sciences, Amritsar, Punjab, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	7	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082698729&doi=10.3389%2ffphar.2020.00322&partnerID=40&md5=795520f3887323bc61d92f3d910bce93
2900	Development of informative genic SSR markers for genetic diversity analysis of Picrorhiza kurroa	Biotechnology Department, CSIR-Institute of Himalayan Bioresource Technology, Palampur, Himachal Pradesh, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, India; Academy of Scientific and Innovative Research, New Delhi, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066989872&doi=10.1007%2fs13562-019-00515-1&partnerID=40&md5=6b6b34f95d7dc8666cfc566a84f1768f
2901	Impact of environment toxin on phytoplankton-zooplankton dynamics	I.K.Gujral Technical University, Kapurthala, Punjab, India; P.G.Department of Mathematics, Khalsa College AmritsarPunjab, India; Department of Applied Sciences, D.A.V.Institute of Engineering and Technology, Jalandhar, Punjab, India; Department of Mathematics, L.R.D.A.V.College, Jagraon, Punjab, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081187907&partnerID=40&md5=580d45c38de311fb8c7e541018e5060b
2902	Effect of gamma irradiation on structure and photoconductivity of amorphous Sb30Se70 chalcogenide films	Department of Physics, GND University, Amritsar, 143005, India; Department of Physics, DAV University, Sarmastpur, Jalandhar, 144012, India; Material Science Division, Inter University Accelerator CentreNew Delhi -110067, India	6	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076090738&doi=10.1016%2fj.inoncrvsol.2019.119807&partnerID=40&md5=9723fdbbf2f7153e914ef14693897e92
2903	Consumers Attitude Towards Controversial Television Commercials and Its Impact on Purchase Intentions	University Business School, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Business Management, Guru Nanak Dev University Regional Campus, Gurdaspur, Punjab, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85102181622&doi=10.1177%2f0258042X19890242&partnerID=40&md5=9e8a16a8fcbbc022a75309f59b5b5f61
2904	Swift Heavy Ion Irradiated Low-Density Polyethylene: Structural and Optical Investigations	Department of Physics, Lovely Professional University, Phagwara, Punjab, India; Department of Applied Science, Beant College of Engineering and Technology, Batala, Punjab, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074968587&doi=10.1080%2f02022348.2019.1687139&partnerID=40&md5=866f6bd619a7705de4c4a66640adb56a
2905	Correction: ‘A new randomized response model’	Guru Nanak Dev University, Amritsar, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074564753&doi=10.1111%2frssb.12341&partnerID=40&md5=387a14ed6e2eaa83b5204c45ef3dd9
2906	Reversible detection of hypochlorite using the deprotonation-protonation strategy: A search for new building blocks	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Punjab, Amritsar, 143005, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Punjab, Amritsar, 143005, India	7	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85114897061&doi=10.1039%2fd0ma00300j&partnerID=40&md5=c7dfe097814dd58617d14b10771f11ce
2907	Bearing fault diagnosis based on flexible analytical wavelet transform and fuzzy entropy approach	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Mechanical Engineering, Guru Nanak Dev University, Amritsar, 143005, India; Department of Mechanical Engineering, University of Alberta, Edmonton, AB T6G 2G8, Canada; Discipline of Mechanical Engineering, Indian Institute of Technology, Indore, India	6	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85104348016&doi=10.1016%2fj.matpr.2020.12.160&partnerID=40&md5=5777c1b5b6cbe9acc732013151d4bad8
2908	Ammonia sensing using MoS2/WO3composite obtained via top-down approach	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85104315631&doi=10.1016%2fj.matpr.2020.11.248&partnerID=40&md5=c27b3da977d27e217bc6b88487820dca
2909	Role of Plant Growth Regulators (PGRs) in Mitigation of Heavy Metal Phytotoxicity in Plants	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Microbiology, D.A.V. University, Jalandhar, Punjab, India; Department of Biotechnology, Modern College of Arts Science and Commerce, Ganeshkhind, Savitribai Phule Pune University, Pune, India; Department of Biotechnology, D.A.V. College, Amritsar, Punjab, India; Department of Agricultural Sciences, D.A.V. University, Jalandhar, Punjab, India	10	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85102108192&doi=10.1007%2f978-3-030-45975-8_14&partnerID=40&md5=0a449e768f81be928303e73efc3098f7
2910	COVID-19 and Ludhiana’s woolen knitwear industry: way forward	Punjab School of Economics, Guru Nanak Dev University, Amritsar, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85101442388&doi=10.1108%2fRJTA-07-2020-0082&partnerID=40&md5=830e1c850809ae7a771bb422dec905f3

2911	3D printing technology in pharmaceutical delivery system: Recent advancement in innovative approach [Farmasötik Taşıyıcı Sistemlerde 3B Baskı Teknolojisi: Yenilikçi Yaklaşımda Son Gelişmeler]	Department of Pharmaceutics, Khalsa College of Pharmacy, Amritsar, Punjab, India; Department of Pharmacology, Khalsa College of Pharmacy, Amritsar, Punjab, India; Department of Pharmaceutical Chemistry, Khalsa College of Pharmacy, Amritsar, Punjab, India	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85097747906&partnerID=40&md5=fcacae5533c39cfa0ad07a50542d7879
2912	Biosurfactants as a novel additive in pharmaceutical formulations: Current trends and future implications	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Sri Sai College of Pharmacy, Bad-hani, Pathankot, 145001, India; The International School BangaloreKarnataka 562125, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85097373930&doi=10.2174%2f1389200221666201008143238&partnerID=40&md5=18f90968c63a3b6b38e6fa87714b948a
2913	Sub-chronic and chronic toxicity evaluation of 7-methylxanthine: a new molecule for the treatment of myopia	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India; Department of Pathology, Augusta University, Augusta, GA, United States; Department of Pathology, Government Medical College, Amritsar, India; Department of Ophthalmology, Baba Farid University of Health Sciences, Faridkot, Punjab, India	6	2020	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092784387&doi=10.1080%2f01480545.2020.1833904&partnerID=40&md5=a25a4fe7b345aed9ce14718e33a4429
2914	Do Prestigious Underwriters Shape the Performance of SME IPOs in India?	University School of Financial Studies, Guru Nanak Dev University, Amritsar, Punjab, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092285969&doi=10.1177%2f0972150920963216&partnerID=40&md5=6148c6d78952b75cc07d8726f4bfaf3f
2915	Customers' usage behaviour of e-banking services: Interplay of electronic banking and traditional banking	University Business School, Guru Nanak Dev University, Amritsar, India; University School of Financial studies, Guru Nanak Dev University, Amritsar, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092084286&doi=10.1002%2fjife.2266&partnerID=40&md5=9cdf2f0a190be8f546b4ff6d094e104
2916	Effect of photoperiod and growth media on yield and antioxidant properties of wheatgrass juice of Indian wheat varieties	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091382455&doi=10.1007%2fs13197-020-04805-8&partnerID=40&md5=d38589a0ebe4c54bbfc80469f8aa7b30
2917	Biotechnological Strategies for Enhanced Production of Biofuels from Lignocellulosic Biomass	Department of Microbiology, Guru Nanak Dev University, Amritsar, India; Center-Eau Terre Environnement, INRS-ETE, Université du Québec, QC, Québec, Canada; Ludhiana Beverages Pvt Ltd, Jaspalon, Doraha, Ludhiana, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090032064&doi=10.1007%2f978-3-030-38032-8_24&partnerID=40&md5=729528bdd2f9a6c5bef7b174683129fb
2918	Recent advances in the novel formulation of docosahexaenoic acid for effective delivery, associated challenges and its clinical importance	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143105, India; Department of Orthopaedics, Government Medical College, Amritsar, Punjab 143001, India	7	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089358760&doi=10.2174%2f1567201817666200512103402&partnerID=40&md5=8a0d5c48d2896a632591e16fd0830de6
2919	Asymmetric synthesis of 3, 3-disubstituted oxindoles	University of Calabria, Italy; Aix-Marseille University, France; Guru Nanak Dev University, India; University of Southampton, United Kingdom	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088986478&partnerID=40&md5=772c4ee0f67ff169e9c2b0ccc512f7c7
2920	Harmonious biomaterials for development of in situ approaches for locoregional delivery of anti-cancer drugs: Current trends	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; The International School BangaloreKarnataka, India	7	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086748869&doi=10.2174%2f1573406415666190621095726&partnerID=40&md5=e2f11330605e2aa8066f80e2e9e8cacd
2921	Classification and Validation of MRI Brain Tumor Using Optimised Machine Learning Approach	Guru Nanak Dev University, Amritsar, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085485671&doi=10.1007%2f978-981-15-1420-3_19&partnerID=40&md5=39fb0eff558da6c1af97371d28b68cc3
2922	Screening of brca1 variants c.190t>c, 1307delt, g.5331g>a and c.2612c>t in breast cancer patients from north india	Guru Nanak Dev University, Department of Human Genetics, Human Cytogenetics Laboratory, Amritsar, Punjab, India; Sri Guru Ram Das Institute of Medical Sciences and Research, Vallah, Department of Surgery, Amritsar, Punjab, India; Sri Guru Ram Das Institute of Medical Sciences and Research, Vallah, Department of Pathology, Amritsar, Punjab, India; Sri Guru Ram Das Institute of Medical Sciences and Research, Vallah, Department of Radiotherapy, Amritsar, Punjab, India	7	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085293310&doi=10.1590%2f1678-4685-gmb-2019-0014&partnerID=40&md5=2e1dd4ae360b8e3dd376485c1f213d84
2923	Recent advances in generative adversarial networks: An analysis along with its outlook	Guru Nanak Dev University, Department of Computer Engineering, Amritsar, India	1	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083955411&doi=10.1109%2fConfluence47617.2020.9058040&partnerID=40&md5=ed00f42241c18ec22d3733c9a5d63cb9
2924	CFRF: Cloud forensic readiness framework – A dependable framework for forensic readiness in cloud computing environment	Computer Science, Punjab School of Economics, Guru Nanak Dev University, Amritsar, 143005, India; Faculty of Engineering and Technology, Guru Nanak Dev University, Amritsar, 143005, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083442202&doi=10.1007%2f978-3-030-38040-3_88&partnerID=40&md5=0cf5f13c7076ee3a0d147c0254fb425

2925	Unreliable server retrieval G-queue with bulk arrival, optional additional service and delayed repair	Guru Nanak Dev University, India; Department of Mathematics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Mathematics, Indian Institute of Technology, Roorkee, 247667, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083336219&doi=10.1504%2fIJOR.2020.106362&partnerID=40&md5=67fd10822d1201dad60c27997c38696c
2926	Marketing of agricultural produce: An attitudinal analysis of farmers	University Business School, Guru Nanak Dev University, Amritsar. Punjab, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85080107655&doi=10.31838%2fijcr.07.02.94&partnerID=40&md5=cb05dc9409e35c4393dac894bfa8759b
2927	A Review on Hybrid WSN-NGPON2 Network for Smart World	Punjabi University, Patiala, Punjab, India; Guru Nanak Dev University Regional Campus, Gurdaspur, Punjab, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079345790&doi=10.1007%2f978-3-030-40305-8_31&partnerID=40&md5=660bf3782391cff55b0f6b8fc86ba82d
2928	TensorFlow-based semantic techniques for multi-cloud application portability and interoperability	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, Punjab, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079284125&doi=10.1007%2f978-981-15-0146-3_2&partnerID=40&md5=daeb151b978afeba0c7e42e410f878d0
2929	Enhanced security mechanism in cloud based on DNA excess 3 codes	GNDU (Main Campus), Amritsar, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079275278&doi=10.1007%2f978-981-15-0146-3_1&partnerID=40&md5=6e9b1e1c9e299b1ea9e64d4444ef541a
2930	Enhancing high availability for NoSQL database systems using failover techniques	Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, Punjab, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079272042&doi=10.1007%2f978-981-15-0146-3_3&partnerID=40&md5=b0a004695270ccb72eed1132c0fa4fe
2931	Volumetric, acoustic, viscometric, calorimetric and spectroscopic studies to elucidate the effects of citrate and tartrate based food preservatives on the solvation behaviors of acidic amino acids at different temperatures	Department of Chemistry, UGC Sponsored Center for Advanced Studies-1, Guru Nanak Dev University, Amritsar Punjab, 143005, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078685177&doi=10.1039%2f9fo00872a&partnerID=40&md5=850b631b635043f504fde0c9e140f751
2932	Nickel(0)-Catalyzed [3+2]-Cycloadditions of Bis(alkylidenecyclopropanes) with Diazenes: A Facile Synthesis of Functionalized Pyrazolidine-1,2-dicarboxylates	Department of Chemical Sciences, I. K. Gujral Punjab Technical University Kapurthala, Punjab, 144603, India; Drug Discovery Research Centre (DDRC), Translational Health Sciences and Technology Institute (THSTI), Faridabad, 121001, India; Department of Chemistry, Guru Nanak Dev University Amritsar, Punjab, 143005, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076893978&doi=10.1055%2fs-0039-1691502&partnerID=40&md5=1345d9e222a5a4a2ae1bcf8a90d46be5
2933	Towards a model-driven framework for data and application portability in paas clouds	Guru Nanak Dev University, Amritsar, Punjab 143001, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076852379&doi=10.1007%2f978-981-15-0029-9_8&partnerID=40&md5=ae82eac266978b6e78db452db89df7cd
2934	Comprehending code fragment in code clones: A literature-based perspective	Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076640366&doi=10.1007%2f978-3-030-29407-6_56&partnerID=40&md5=391307ed72f6458095ffff2b16ad2973
2935	Top-k% concept stratagem for classifying semantic web services	Department of Computer Science, Guru Nanak Dev University, Amritsar, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072843414&doi=10.1007%2f978-981-13-8618-3_22&partnerID=40&md5=5ab396c5add0a49f6833c8e392d3b25
2936	Pubertal development and problem behaviours in Indian adolescents	Department of psychology, Guru Nanak Dev University, Amritsar, India	1	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081913900&doi=10.1080%2f02673843.2020.1739089&partnerID=40&md5=8bdd9df9ae1f2859315b13c8c2cd38c5
2937	Customer reviews as the measure of software quality	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85101762952&doi=10.1049%2fiet-sen.2019.0309&partnerID=40&md5=a57ae356029f3281ed5c9e6f6862590a
2938	Productivity and profitability of egyptian clover (Trifolium alexandrinum) affected under different sowing times and dates of last cutting	School of Organic Farming, Punjab Agricultural University, Ludhiana, Punjab, 143 001, India; Department of Agriculture, Khalsa College, Amritsar, Punjab, 143 002, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85114138271&partnerID=40&md5=e06db61ba774b6a661d16f5a4d99e376
2939	Integrated weed management in processing potato (Solanum tuberosum L.) using straw mulching and herbicides	Department of Agronomy, Khalsa College Amritsar, Punjab, 143001, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85105443276&doi=10.5958%2f2395-146X.2020.00137.4&partnerID=40&md5=b0ac5f3190d48feff12a328bb279ef25
2940	Structural, thermal, electrical and dielectric properties of La1-xSrxMn0.50Fe0.50O3 (0.10 ≤ x ≤ 0.40) cathode material for solid oxide fuel cells	Department of Applied Sciences, I.K. Gujral Punjab Technical University, Jalandhar, 144001, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Applied Sciences, DAV Institute of Engineering and Technology, Jalandhar, 144001, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85098650667&doi=10.14233%2fajchem.2020.22965&partnerID=40&md5=88d36eed9ea7c5250e6e92379b2cbad9

2941	Magic wavelengths for optical-lattice based CS and RB active clocks	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Atomic, Molecular and Optical Physics Division, Physical Research Laboratory, Navrangpura, Ahmedabad, 380009, India; Beijing National Laboratory for Condensed Matter Physics, Institute of Physics, Chinese Academy of Sciences, Beijing, 100190, China; University of Chinese Academy of Sciences, Beijing, 100049, China	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85098556599&doi=10.3390%2fatoms8040079&partnerID=40&md5=9bb219ba4aa67e139c5f0800074e2b36
2942	Enhanced electrical conductivity in Zr-Doped (La 0. 7 Ba 0. 3)(Mn 0. 5 Fe 0. 5)O3 solid solutions	Ct University, Sidhwan Khurd Ludhiana, Punjab, 142024, India; Department of Physics, Baba Farid College (Affiliated to Punjabi University Patiala), Bathinda, 151001, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Ludhiana Group of Colleges, Chokimann Ludhiana, Punjab, 142001, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85098534361&doi=10.1142%2fS2010135X20500320&partnerID=40&md5=4466fc183e3d6b5eed2fee0cd052ccc6
2943	Candida antarctica lipase-B-catalyzed kinetic resolution of 1,3-dialkyl-3-hydroxymethyl oxindoles	Department of Chemistry, U.G.C. Centre of Advance Studies in Chemistry-II, Guru Nanak Dev University, Amritsar, India; Department of Chemistry, DAV University, Jalandhar, Punjab, India; Department of Chemistry and Center of Advanced Studies in Chemistry-II, Panjab University, Chandigarh, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096320255&doi=10.1002%2fchir.23284&partnerID=40&md5=39f989638562aaf45ccb2ee2f0c3ad04
2944	Bioprospecting the antimicrobial, antibiofilm and antiproliferative activity of Symplocos racemosa Roxb. Bark phytoconstituents along with their biosafety evaluation and detection of antimicrobial components by GC-MS	Microbial Technology Laboratory, Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India; National Salmonella & Escherichia Centre and Diagnostic Reagents Laboratory, Central Research Institute, Kasauli, HP 173204, India; Department of Veterinary Pathology, Dr. G.C.Negi College of Veterinary and Animal Sciences, CSK Himachal Pradesh KrishiVishwavidyalaya, Palampur, HP 176062, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096119437&doi=10.1186%2fs40360-020-00453-y&partnerID=40&md5=ffb95c77d4b21b7e8f1c24fecfcb21
2945	In silico pathway analysis based on chromosomal instability in breast cancer patients	Human Cytogenetics Laboratory, Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Surgery, Sri Guru Ram Das Institute of Medical Sciences and Research, Vallah, Amritsar, Punjab, India; Department of Pathology, Sri Guru Ram Das Institute of Medical Sciences and Research, Vallah, Amritsar, Punjab, India; Department of Radiotherapy, Sri Guru Ram Das Institute of Medical Sciences and Research, Vallah, Amritsar, Punjab, India	7	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85095681270&doi=10.1186%2fs12920-020-00811-z&partnerID=40&md5=a2565085cc383e0fdfd17337f1361579
2946	Synthesis, characterization, DNA-binding and biological studies of novel titanium (IV) complexes	Department of Chemistry, National Institute of Technology, Hamirpur, Himachal Pradesh 177 005, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Biotechnology, Deenbandhu Chhotu Ram University of Science and Technology, Murthal (Sonepat), Haryana 131039, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093914485&doi=10.1007%2fs12039-020-01843-9&partnerID=40&md5=1a28a4bd0a0efb463cb135b1be49547f
2947	In silico analysis of SNPs in human phosphofructokinase, muscle (PFKM) gene: An apparent therapeutic target of aerobic glycolysis and cancer	P.G. Department of Bio-Technology, Khalsa College, Amritsar, 143001, India; Department of Biological Sciences, George Washington University, Washington, DC 20052, United States	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093662903&doi=10.1016%2fj.genrep.2020.100920&partnerID=40&md5=056feceb3dbae9d83f8bfe65e6a892dd
2948	Structural insights into rice SalTol QTL located SALT protein	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; CSIR-Institute of Microbial Technology, Sector 39-A, Chandigarh, 160036, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092054501&doi=10.1038%2fs41598-020-73517-y&partnerID=40&md5=13155ad2cbdf3c11dd2dd45921f682b1
2949	The five-level Λ - Σ system as an optical switch under different wavelength mismatching regimes, including one due to Rydberg transition	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, Indian Institute of Technology, Roorkee, 247 667, India; Guru Nanak Dev University, Amritsar, 143005, India	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091521882&doi=10.1016%2fj.iileo.2020.165600&partnerID=40&md5=e4078fea806f83db5a984b80b9343963
2950	Polyamines induced nematode stress tolerance in Solanum lycopersicum through altered physico-chemical attributes	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090246069&doi=10.1016%2fj.pmpp.2020.101544&partnerID=40&md5=3953d9e89bff585e03ab1c811f3cc0bb
2951	Non-linear optical behavior of benzothiazole based chromophores: Second harmonic generation	Department of Chemistry, UGC Centre of Advanced Study, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bangalore, 560012, India	5	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089684337&doi=10.1016%2fj.dyepig.2020.108739&partnerID=40&md5=c5ff5f08e937b0eca867eab1318ec52e

2952	Secondary Metabolites of Alpinia galanga Induce toxic Effects in Polyphagous Lepidopteran Pest, Spodoptera litura (Fabricius) [Sekundäre Metaboliten von Alpinia galanga induzieren toxische Wirkungen bei Spodoptera litura (Fabricius)]	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Natural Products, National Institute of Pharmaceutical Education and Research (NIPER), S.A.S. Nagar, Punjab 160062, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089566533&doi=10.1007%2fs10343-020-00514-6&partnerID=40&md5=a7daa70d79c657ac586b3c1e69f12e15
2953	Linkage disequilibrium and haplotypes of five TP53 polymorphisms in oesophageal cancer patients	Human Cytogenetics Laboratory, Department of Human Genetics, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Pathology, Sri Guru Ram Das Institute of Medical Sciences and Research, Amritsar, 143 005, India; Department of Surgery, Sri Guru Ram Das Institute of Medical Sciences and Research, Amritsar, 143 005, India; Department of Radiotherapy, Sri Guru Ram Das Institute of Medical Sciences and Research, Amritsar, 143 005, India	7	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087953160&doi=10.1007%2fs12041-020-01224-8&partnerID=40&md5=7130860bf39f2546c3af73435708eaac
2954	Role of water in cyclooxygenase catalysis and design of anti-inflammatory agents targeting two sites of the enzyme	UGC Sponsored Centre for Advanced Studies, Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087295889&doi=10.1038%2fs41598-020-67655-6&partnerID=40&md5=00f3fdb8daa4c81a947c968ee03d026
2955	Two-level utilization-based processor allocation for scheduling moldable jobs	Department of Computer Science, National Taichung University of Education, Taichung, Taiwan; Computer Engineering and Technology Department, Guru Nanak Dev University, Amritsar, India; National Center for High-Performance Computing, National Applied Research Laboratories, Hsinchu, Taiwan	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082717796&doi=10.1007%2fs11227-020-03246-6&partnerID=40&md5=7ce44415d220e190a59f79f54d6b0c41
2956	Design, Synthesis, Antiproliferative Evaluation, and Molecular Docking Studies of N-(3-Hydroxyindole)-Appended β -Carbolines/Tetrahydro- β -Carbolines Targeting Triple-Negative and Non-Triple-Negative Breast Cancer	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; School of Molecular and Cell Biology, University of the Witwatersrand, Private Bag 3, WITS, Johannesburg, 2050, South Africa; School of Chemistry and Physics, University of KwaZulu-Natal, P/Bag X54001, Westville, Durban, 4000, South Africa	8	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85097044115&doi=10.1021%2facsomega.0c01226&partnerID=40&md5=2225a12db49870c7368ac1130997880e
2957	Low temperature processable crystalline WO ₃ langmuir-blodgett ultra-thin film as blocking layer in solar cells application	Indian Institute of Technology Gandhinagar, Palaj, Gandhinagar, India; Department of Physics, Guru Nanak Dev University, Amritsar, India; Technical Physics Divison, Bhabha Atomic Research Centre, Trombay Mumbai, India; Chemistry Division, Bhabha Atomic Research Centre, Trombay Mumbai, India	7	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096627245&doi=10.1063%2f5.0016670&partnerID=40&md5=be537469583b07daf8cfe99979b4702d
2958	Evidence of strong correlation between local structures in glass and crystalline phase of lanthanum tellurite system	Solid State Physics Division, Bhabha Atomic Research Centre, Trombay, Mumbai, 400085, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096620573&doi=10.1063%2f5.0017025&partnerID=40&md5=608f23dbdceb491905816a74c0e1acd3
2959	Influence of erbium doping on electrical properties and thermal sensitivity of tin oxide based temperature sensor	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096620360&doi=10.1063%2f5.0016715&partnerID=40&md5=247de36601e05fcc09a8a3159d791dce
2960	Investigation of structural and optical characteristics of CaWO ₄ and BaWO ₄ nanoparticles	Sensors and Glass Physics Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Hard X-ray Applications Laboratory, SUS, Raja Ramanna Centre for Advanced Technology, Indore, 452013, India; Homi Bhabha National Institute, Anushakti Nagar, Mumbai, 400094, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096618638&doi=10.1063%2f5.0017034&partnerID=40&md5=69483448cab8f7408920e19612e2708a
2961	Ambient-air fabrication with inorganic/polymer hole transport layer: Towards low cost perovskite solar cells	Department of Physics, Guru Nanak Dev University, Amritsar, India; Technical Physics Divison, Bhabha Atomic Research Centre, Trombay Mumbai, India	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096603563&doi=10.1063%2f5.0017180&partnerID=40&md5=96f515c5668736e650ba79b3f15a7e4b
2962	Thermal characteristics and short-range structure in TiO ₂ TeO ₂ and Bi ₂ O ₃ -TeO ₂ glasses: A comparative study	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096601915&doi=10.1063%2f5.0017178&partnerID=40&md5=1a5204ad499f359ca18edac66e7f98ce
2963	Ammonia sensor using MoS ₂ nanostructures synthesized via bottom-up approach	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096600172&doi=10.1063%2f5.0017100&partnerID=40&md5=dcc8e30dd113aa69156db416f762cb23
2964	Effects of oblique angle deposition on surface wettability of Sn metal thin films	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096572263&doi=10.1063%2f5.0017828&partnerID=40&md5=f1667035d130b0f31121ef3deb8318c3
2965	Electrospun 1D TiO ₂ nanorods for enhancing the performance of dye sensitized solar cells	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; S.I.E.T, Ram Tirath Road, Amritsar, 143107, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096548590&doi=10.1063%2f5.0016993&partnerID=40&md5=085fab18e6b283681bf2cbb4efb2452b

2966	Thermal, structural and photoluminescence properties of Eu3+/Er3+ doped Li2O-TeO2 glasses	Sensors and Glass Physics Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096536774&doi=10.1063%2F5.0017651&partnerID=40&md5=d9182f2a79b24a5747c77a4c29d4b793
2967	Up-converting rare earth phosphor yttrium doped TiO2 material for dye sensitized solar cells application	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096521733&doi=10.1063%2F5.0016989&partnerID=40&md5=1c1d0c24ad65ea70cbf1a92cea881bb9
2968	Corrigendum to ‘A Fog-Cloud based cyber physical system for Ulcerative Colitis diagnosis and stage classification and management’ [Journal Microprocessor and Microsystems, 72 (2020) /102929] (Microprocessors and Microsystems (2020) 72, (S0141933119302273), (10.1016/j.micpro.2019.102929))	Baba Gulam Shah Badshah University, Rajouri, J&K, India; Guru Nanak Dev University, Amritsar, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85095585433&doi=10.1016%2Fj.micpro.2020.103304&partnerID=40&md5=d73cbcd8c5193b3f22f3d80d1815daf3
2969	Neutron diffraction investigation of strontium tellurite glass, anti-glass and crystalline phases	Sensors and Glass Physics Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, India; Centre for Energy Research, Budapest, Hungary	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092478164&doi=10.1080%2F01411594.2020.1832225&partnerID=40&md5=27de05bfa3fd4760a76a1b46731ff13e
2970	In vitro screening of peptidase inhibitory activity in some plants of North India	Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092537274&doi=10.1016%2Fj.heliyon.2020.e05203&partnerID=40&md5=dfc22b1de8d4a36a009b5dbbb39dbbcd
2971	Correction to: Synthesis, characterization and theoretical calculations of (1,2-diaminocyclohexane)(1,3-diaminopropane)gold(III) chloride complexes: in vitro cytotoxic evaluations against human cancer cell lines (BioMetals, (2015), 28, (827–844), 10.1007/s10534-015-9869-1)	Department of Chemistry, King Fahd University of Petroleum and Minerals, Dhahran, 31261, Saudi Arabia; Center of Research Excellence in Nanotechnology, King Fahd University of Petroleum and Minerals, Dhahran, 31261, Saudi Arabia; Department of Chemistry, College of Sciences and Humanities, Prince Sattam Binin Abdulaziz University, Al-Kharj, 11942, Saudi Arabia; Department of Molecular, Biology & Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India; Clinical Research Laboratory, SAAD Research Development Center, SAAD Specialist Hospital, Al-Khobar, 31952, Saudi Arabia; Veterinary Medicine, College of Agriculture and Veterinary Medicine, Qassim University, Buraydah, 51452, Saudi Arabia	7	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089288130&doi=10.1007%2Fs13197-020-00412-4&partnerID=40&md5=b10072b6a4996d1ee640a547eb2f71d1
2972	Diversity and relationship among grain, flour and starch characteristics of Indian Himalayan colored corn accessions	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083426456&doi=10.1007%2Fs13197-020-04412-7&partnerID=40&md5=32cbf306606a831c3059b718c3c0e0d9
2973	Potential role of EphrinA2 receptors in postconditioning induced cardioprotection in rats	Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, India; Department of Pharmacology, Khalsa College of Pharmacy, Amritsar, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088115427&doi=10.1016%2Fj.eiphar.2020.173231&partnerID=40&md5=caa780dff678b463ff4a26ea084fd14
2974	Synthetic Emergence in N-Arylimidazoles: A Review	Department of Chemistry, Chaudhary Bansi Lal University, Bhiwani, Haryana, India; Department of Chemistry, Maharishi Markandeshwar University, SadopurHaryana, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Chemistry, Central University of Haryana, Mahendragarh, Haryana, India	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85099621038&partnerID=40&md5=f185d9386210094423091fa8988651d7
2975	Comparison of CERES-Wheat and infocrop model to predict the phenology and yield of wheat	Department of Agriculture, Guru Nanak Dev University, Amritsar, 143001, India; Department of Agriculture, Khalsa College, Amritsar, 143 001, India; Department of Climate Change and Agrometeorology, Punjab Agricultural University, Ludhiana, 141 001, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092302405&partnerID=40&md5=fc358a239d4d1a015f4ec4878987d036
2976	Applications of molecular dynamic simulations in lipid-based drug delivery system	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India; Pharmaceutics Division, University Institute of Pharmaceutical Sciences, UGC-Centre of Advanced Study, Panjab University, Chandigarh, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091263685&doi=10.1089%2Fadt.2020.986&partnerID=40&md5=120c80271b3d5ffb25c5304bfc4ce7cc
2977	Role of nanoemulsion for safe and cost-effective delivery of amphotericin b	Department of Pharmaceutics, Khalsa College of Pharmacy, Amritsar, Punjab, India; Department of Pharmacology, Khalsa College of Pharmacy, Amritsar, Punjab, India; Department of Medical Laboratory Sciences, Khalsa College of Pharmacy and Technology, Amritsar, Punjab, India	6	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090681103&doi=10.22159%2Fijap.2020v12i5.38245&partnerID=40&md5=4d5b9009593be263dd1a71058bb6fec5

2978	Growth and characterization of hydrophobic anti-reflection CaF2 films	Sensors and Glass Physics Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Physics, University of Petroleum and Energy Studies, Dehradun, Uttarakhand 248007, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088316181&doi=10.1007%2fs10854-020-03980-w&partnerID=40&md5=9144e0a6368c8d8b49d5d80b8fd1a0ff
2979	The benefits of probiotic interventions in maternal-fetal health: An appraise review	Department of Pharmacology, Chandigarh College of Pharmacy, Landran, Mohali, Punjab 140307, India; CSIR-Indian Institute of Integrative Medicine, Jammu, 180001, India; Department of Zoology, Khalsa College, Amritsar, Punjab 143002, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088125065&doi=10.1016%2fj.phanu.2020.100211&partnerID=40&md5=077ec96bca93411c753e4405cadc23ba
2980	c.29C>T polymorphism in the TGF-β1 gene correlates with increased risk of End Stage Renal Disease: original study and meta-analysis	Department of Biotechnology, DAV College, Amritsar, Punjab, India; Academy of Scientific and Innovative Research (AcSIR), CSIR-Central Drug Research Institute, Lucknow, India; CSIR-Central Drug Research Institute, Lucknow, India; Drug Discovery Research Center (DDRC), Translational Health Science and Technology Institute (THSTI), NCR Biotech Science Cluster, Faridabad, Haryana, India; Department of Nephrology, Kidney Hospital, Jalandhar, Punjab, India; Gautam Budh Health Care Foundation, Noida, Uttar Pradesh, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, India; Centre for Cellular and Molecular Biology, Hyderabad, India	8	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083640217&doi=10.1016%2fj.mgene.2020.100703&partnerID=40&md5=4cc587ce84e37e67ce5b8c20904a2179
2981	Diminution of fluoride from groundwater using electrocoagulation: Process optimization and role of arsenic interference	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85098643421&doi=10.5004%2fdwt.2020.25925&partnerID=40&md5=18e4fe7ac9e504cf48d990e1835445c2
2982	Erratum: A scientometric review of global research on smart disaster management (IEEE Transactions on Engineering Management DOI: 10.1109/TEM.2020.2972288)	Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus, Gurdaspur, India; Department of Computer Science and Informatics, Central University of Himachal Pradesh, Dharamshala, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087509229&doi=10.1109%2fTEM.2020.2980393&partnerID=40&md5=c0fccc9d8e4e3476b3e81a1b7482de49
2983	Frontline publishers of punjabi language books: A bibliometric study	Department of Library and Information Science, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Library and Information Science, University of Delhi, Delhi, 110 007, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090684463&doi=10.14429%2fdilit.40.4.15811&partnerID=40&md5=73d66641469523d0322fe60cd56a18f6
2984	Measuring the complexity of migration transition: an attempt using metrics	Department of Computer Science & Engineering, Guru Nanak Dev University Regional Campus, Gurdaspur, Punjab, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071189761&doi=10.1080%2f0952813X.2019.1654549&partnerID=40&md5=bdf23f608b618f71b910faa40f9f74ea
2985	Feature Selection Using Metaheuristic Algorithms: Concept, Applications and Population Based Comparison	Guru Nanak Dev University, Department of Computer Science and Engineering, Gurdaspur, Punjab, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092688498&doi=10.1109%2fComPE49325.2020.9200173&partnerID=40&md5=72e7da2a5e9354718a35bc4dc7005a93
2986	Synthesis, characterization, DNA-interactions, antioxidant, antimicrobial and anticancer studies of mixed-ligand titanocene dichloride complexes	Department of Chemistry, National Institute of Technology, Hamirpur, Himachal Pradesh 177005, India; Department of Biotechnology, Deenbandhu Chhotu Ram University of Science and Technology, Sonapat, Murthal, Haryana 131039, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090676517&doi=10.31838%2fijpr%2f2020.12.03.164&partnerID=40&md5=79b6c118d07c32102bf65b9b4e25d950
2987	The Media Coverage of Drugs and Alcohol in Punjab during COVID-19 Pandemic	Department of Sociology, Guru Nanak Dev University, India	1	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090225414&doi=10.1111%2faspp.12537&partnerID=40&md5=3bf0caf80b6075c567dfbc97e9e19c6f
2988	Planar and Nonplanar Electron-Acoustic Solitary Waves in the Presence of Positrons	Sikh National College, Banga, 144505, India; Department of Physics, DAV University, Jalandhar, 144008, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088637514&doi=10.1134%2fS1063780X20070028&partnerID=40&md5=31ce8c60acb99693511e66e26a7fdfab
2989	Effect of jack knife stretching versus proprioceptive neuromuscular facilitation (Hold relax) stretching technique in asymptomatic individuals with hamstring tightness: A randomized clinical trial	Faculty of Physiotherapy, KIMSUDU, Karad, Maharashtra, India; Faculty of Physiotherapy, DPU, Pune, Maharashtra, India; Faculty of physiotherapy, GNDU, Amritsar, Punjab 143001, India	4	2020	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088019145&partnerID=40&md5=67b42cd3bbfc2c87bc09ed89b4261cf6
2990	Factors influencing web accessibility of corporate information: Indian evidence	Akal University, India; Guru Nanak Dev University, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086943974&doi=10.4018%2fIJEBR.2020070101&partnerID=40&md5=d5b14f20e8f4e57429c0439540d009cc8

2991	Impact of Industry on the Forest Resources	Department of Mathematics, Khalsa College, Amritsar, Punjab, India	1	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086401430&doi=10.1088%2f1742-6596%2f1531%2f1%2f012049&partnerID=40&md5=9df0e26d7768be55ee0c5d3aed311b11
2992	Step-up multiple comparison procedure for comparing several normal variances	Department of Mathematics, Guru Nanak Dev University, Amritsar, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057523203&doi=10.1080%2f03610918.2018.1501484&partnerID=40&md5=1d39fda4a3c17c216531e9fae0e63a4c
2993	Impact of online financial advertisements on Indian consumer's attitude: Moderating effect of perceived product innovativeness	GLA University, 17 KM. Stone, NH-2, Mathura Road, Post- Chaumuha, Mathura, Uttar Pradesh 281406, India; Guru Nanak Dev University, Department of Business Management, HarDOCHHANI Road, Gurdaspur, Amritsar, Panjab 143521, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096970844&partnerID=40&md5=45b2f6367efae4a66b2f5d05a0a6064
2994	Capital Adequacy Compliance: Adoption of Basel I, II and III	University Business School (UBS), Guru Nanak Dev University, Amritsar, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093067223&partnerID=40&md5=85aefb3985affd73eda49f181b457ca9
2995	Is Institutional Environment the Only Force Behind Corporate Social Responsibility Disclosure? An Insight into Indian Companies	University School of Financial Studies, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Commerce and Business Administration, Khalsa College, Amritsar, Punjab, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085490985&doi=10.1177%2f0974686220923804&partnerID=40&md5=b413e1c7d9c1c4c0e4d102b06b5df1ec
2996	Statistical optimization of culture conditions of mesophilic gamma-glutamyl transpeptidase from <i>Bacillus altitudinis</i> IHB B1644	Food and Nutraceuticals Division, CSIR-Institute of Himalayan Bioresource Technology, Council of Scientific and Industrial Research (CSIR), PO Box 6, Palampur, Himachal Pradesh 176061, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Biotechnology, CSIR-Institute of Himalayan Bioresource Technology, PO Box 6, Palampur, Himachal Pradesh 176061, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085031343&doi=10.1007%2fs13205-020-02252-y&partnerID=40&md5=7e6af6b037492972d8ee328894b16d6
2997	A Generalization of Bevelacqua's Irreducibility Criterion	Department of Mathematics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Mathematics, SGGGS College, Sector-26, Chandigarh, 160019, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084356599&doi=10.1080%2f00029890.2020.1718952&partnerID=40&md5=be9226b9df7af65b9198bee68287ad60
2998	Physico-Chemical Properties of Soil as Influenced by Integrated Nutrient Management in Onion (<i>Allium cepa</i> L.) Crop	Directorate of Extension Education, Punjab Agricultural University, Ludhiana, Punjab 141 004, India; Department of Agriculture Khalsa College, Amritsar, Punjab 143 005, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85099166230&doi=10.18805%2fijArE-A-5513&partnerID=40&md5=ba023f69a3f3458b8f42f154204651f4
2999	Gene content in solanaceous chloroplast genomes	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; I. K.Gujral Punjab Technical University, Kapurthala, 144 603, India; Centre for I.T. Solutions, Guru Nanak Dev University, Amritsar, 143005, India; Department of Bioinformatics, Hans Raj Mahila Maha Vidyalaya, Jalandhar, 144008, India; Department of Electronics and Communication Engineering, Beant College of Engineering and Technology, Gurdaspur, 143521, India	5	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086760293&partnerID=40&md5=7881bdc859af042d07f98b08201baefc
3000	Contemplating charge transport by modeling of DNA nucleobases based nano structures	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85080106060&doi=10.1016%2ffi.cap.2020.02.016&partnerID=40&md5=854c23583a40cbbd19c7bb0d87680166
3001	Interactive video-player to improve social smile in individuals with autism spectrum disorder	IKG Punjab Technical University, Kapurthala, India; Computer Science and Engineering, CT Institute of Engineering Management and Technology, Jalandhar, India; Khalsa College of Engineering and Technology, Amritsar, India; CT Institute of Engineering Management and Technology, Jalandhar, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076526493&doi=10.1108%2fJAIA-05-2019-0014&partnerID=40&md5=845cf7e3cef680ec3ff43907543502f0
3002	A Study of dimensions of brand equity of female buying behavior of cosmetic products	PG Department of Commerce, Business Administration Khalsa College, Amritsar, Punjab, India; University School of Financial Studies, Guru Nanak Dev University, Amritsar, Punjab, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084153204&partnerID=40&md5=ae26c1b1920bd11c2e66c6479c5f86c5
3003	De-escalation in the Progression of Trillion Dollar Economy: An Empirical Assessment of Indian Corporate Sector	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083644753&doi=10.1080%2f10599231.2020.1745049&partnerID=40&md5=543c14e4e9a51e22252f1676a68c9666
3004	Code clone detection using machine learning techniques: A systematic literature review	Guru Nanak Dev University, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093886603&doi=10.4018%2fIJOSSP.2020040104&partnerID=40&md5=346759f58f5ae04ed7c369e243eca056

3005	Sensory, physicaland nutritional qualities of cookies and pinnis prepared from brown rice and wheat flour	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085118663&partnerID=40&md5=df7f01fcf205ae3f8950a9fd9d5913f0
3006	Type-ii fuzzy membership-based traffic congestion control for urban areas	Computer science engineering department, Khalsa college of engineering & technology, Amritsar, India	1	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083489279&partnerID=40&md5=b87bb9e6ccb222412e7563a9fb6bfae5
3007	Novel mutation in MKKS/BBS6 linked with arRP and polydactyly in a family of North Indian origin	Department of Human Genetics, Guru Nanak Dev University, Amritsar, India; Dr. Daljit Singh Eye Hospital, Amritsar, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078874522&doi=10.1111%2fceo.13719&partnerID=40&md5=3c31a1f7571192b1bbcb539bbf6cdc9
3008	Identification and analysis of the impact of organizational support on the work-life balance of the employees in punjab state power corporation limited	Mittal School of Business, Lovely Professional University, Phagwara, Punjab, India; University Business School, Guru Nanak Dev University, Amritsar, Punjab, India; Lovely Professional University, Phagwara, Punjab, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084485680&partnerID=40&md5=ebf2f402a0b7a09a0cbcd2203764c58c
3009	Impact of GST on impulsive buying behavior of consumer on FMCG (fast moving consumer goods)	Mittal School of Business, Lovely Professional University, Phagwara, Punjab, India; University Business School, Guru Nanak Dev University, Amritsar, Punjab, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084429479&partnerID=40&md5=83f7873c0d5bde6f580b0719230004c
3010	Integrating CuO–Fe2O3 Nanocomposites and Supramolecular Assemblies of Phenazine for Visible-Light Photoredox Catalysis	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab 143005, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088775219&doi=10.1002%2fasia.201901687&partnerID=40&md5=f7ff164519abc9cc736b3a842c70b511
3011	Re-joining of authorized nodes in MANETs using EGSR scheme and detection of internal attacks using ZACK shceme	Department of Computer Science and Engineering, KCET, I.K.G-PTU, Amritsar, India; Department of Electronics and Communication Engineering, BCET, Gurdaspur, India; Department of Computer Engineering and Technology, GNDU, Amritsar, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091833610&doi=10.1007%2fs41870-018-0155-7&partnerID=40&md5=715e19f3397a8883487d45a25292736e
3012	DNA alterations in blood cells of Channa punctatus after acute exposure to 4-Nonylphenol	Guru Nanak Dev University, Amritsar, Punjab, 143 005, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087344868&partnerID=40&md5=1b7af5a768bdce5da4f2e493fa5aa19d
3013	Price formation in Indian gold market: Analysing the role of gold Exchange Traded Funds (ETFs) against spot and futures markets	University School of Financial Studies, Guru Nanak Dev University, Amritsar, Punjab, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085760462&doi=10.1016%2fj.iimb.2019.07.017&partnerID=40&md5=61753b45e666cd1461c637ae4d42cec1
3014	Synthesis and Validation of a Cu Meta-Based Wideband Microwave Absorber on an Antenna Array	Electronics and Communication Engineering Department, SLIET Logowal, Sangrur, India; Electrical and Instrumentation Engineering Department, SLIET Logowal, Sangrur, India; Electronics and Communication Department, GNDU, Amritsar, India; Analytical Chemistry and Nanotechnology, MCETRC, Chinnaravuru, Tenali, Andhra Pradesh 522 201, India; Rasakalpa AITDC Laboratory, Rasakalpa AITDC, Kandukur, Andhra Pradesh 523 105, India	6	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069507178&doi=10.1007%2fs11664-019-07395-0&partnerID=40&md5=7437b87c0d2211e9479bb745fd8930cc
3015	A closed testing procedure for comparison between successive variances	Department of Mathematics, Guru Nanak Dev University, Amritsar, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079353040&doi=10.1080%2f02664763.2019.1645819&partnerID=40&md5=e9eaf3c93d5bfea2f5e210bee06afd60
3016	An Efficient Blockchain Based Authentication Scheme to Secure Fog Enabled IoT Devices	Guru Nanak Dev University, Computer Science Engineering, Amritsar, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092128376&doi=10.1109%2finfo-TaiwanICAN48429.2020.9181356&partnerID=40&md5=95ebdcd6b62be62d7f898e5ff8f1be2b
3017	Macroeconomic determinants of gold prices: A bounds testing approach	Department of Business Management and Commerce, Guru Nanak Dev University (GNDU - RC), Gurdaspur, Punjab, India; University School of Financial Studies, Guru Nanak Dev University, Amritsar, Punjab, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089676281&doi=10.17010%2fijif%2f2020%2fv14i2%2f150554&partnerID=40&md5=aac18eb759dcfe692be239ffa24bd84f
3018	Dynamic traingular localization based security aware protocol forwireless sensor networks	Computer science and Engineering Department, Khalsa College of Engineering and Technology, Amritsar, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079656853&partnerID=40&md5=82f0b7448ad7dd6c3202b476615658a
3019	Non dominated sorting genetic algorithm based energy aware clustering protocol	Computer Science Engineering Department, Khalsa College Of Engineering & Technology, Amritsar, India, Computer Science Engineering Department, Inder Kumar Gujral Punjab Technical University, Jalandhar., India, computer Science Engineering Department, Guljar Group Of Institutes, Khanna, Punjab	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079650247&partnerID=40&md5=03f37254eebf34bd50b87b072b9a3d96

3020	Synthesis and characterization of s-fac-[Co(dien)2](4-np)3(4-npH)·2H2O containing symmetric, [4-np...H...4-np]– and unsymmetric, [4-np-H...4-np–] dimers of 4-nitrophenolate (4-np–)	Department of Chemistry, UGC Centre for Advance Studies-I, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Faculty of Chemistry and Chemical Technology, University of Ljubljana, Vecna Pot 113, Ljubljana, 1000, Slovenia; Department of Chemistry, Maharishi Markandeshwar University, Sadopur, Ambala, Haryana 133007, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076701566&doi=10.1016%2fj.poly.2019.114274&partnerID=40&md5=b60e22adda1211f3d211e58e31ffa9f
3021	Analysis of cold spray-coated boiler-tube material in a chlorine-based corrosive environment at 900°C	Mechanical Engineering, Guru Nanak Dev University, Amritsar, Punjab, India; Mechanical Engineering, I.K. Gujral Punjab Technical University, Jalandhar, Punjab, India; Mechanical Engineering, Shaheed Bhagat Singh State Technical Campus, Ferozepur, Punjab, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071421641&doi=10.1002%2fmaco.201911116&partnerID=40&md5=432885ace2f127bdedcc49697bf48ff3
3022	Comparing several normal variances with a control using sample quasi range	Department of Statistics, Post Graduate Government College, Chandigarh, India; Department of Mathematics, Guru Nanak Dev University, Amritsar, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053333834&doi=10.1080%2f03610918.2018.1485937&partnerID=40&md5=8a0e2d351c523e385df6417b3e94e867
3023	The costs and benefits of going beyond the call of duty	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074409213&doi=10.1108%2fijppm-01-2019-0035&partnerID=40&md5=f789ef60e82f1382c04a6f1364134657
3024	DES-N-doped oxygenated carbon dot colloidal solutions for light harvesting and bio-imaging applications	CSIR-Central Salt, Marine Chemicals Research Institute, G. B. Marg Gujarat, Bhavnagar, 364002, India; Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, 201002, India; Department of Chemistry, UGC-centre for Advance Studies-II, Guru Nanak Dev University, Amritsar, 143005, India	6	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85122195162&doi=10.1039%2fd0ma00621a&partnerID=40&md5=56e755dcf6abf31a0f49b4bc37df3dc2
3025	The mediating role of parental mediation in the relationship between media use and materialism	Department of Commerce and Business Management, Khalsa College, Punjab, Amritsar, India; University Business School, Guru Nanak Dev University, Amritsar, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85115996298&doi=10.1504%2fijbibr.2020.110964&partnerID=40&md5=071ecff0f8871f28108215b3cddb922
3026	Quality and post-harvest losses of potato (<i>Solanum tuberosum</i> L.) as affected by gibberellic acid and potassium management	Department of Agronomy, Punjab Agricultural University, Punjab, 141004, India; Department of Agronomy, Khalsa College Amritsar, Punjab, 143001, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85115767929&partnerID=40&md5=0bb314e270af21aef0e5c8ab9d0a69bd
3027	Productivity growth and efficiency differences in indian manufacturing sector: An inter-state analysis	Mata Ganga Girls College Tarn, Taran, 143401, India; Punjab School of Economics, Guru Nanak Dev University, Amritsar, 143005, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-8511148835&doi=10.35716%2fijed%2f19133&partnerID=40&md5=7e3760decbb1820700011a06985ff6450
3028	Analysis of remittances by internal migrants in urban informal sector in Punjab	Department of Laws, Punjab School of Economics Guru Nanak Dev University, Amritsar, 143005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85111442928&doi=10.35716%2fijed%2f19138&partnerID=40&md5=9b9a45a95c38ff21c1f73bf235ee20da
3029	Influence of development stages on the physicochemical properties of black carrots (<i>Daucus carota</i> L.)	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Food Engineering and Biotechnology, Middle East Technical University, Turkey	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85107009882&doi=10.1080%2f23311932.2020.1841358&partnerID=40&md5=f69dd0d9270ed376939a44099ae31bea
3030	Alterations in structure of biomolecules using ATR-FTIR and histopathological variations in brain tissue of <i>Channa punctatus</i> exposed to 2Naphthalene sulfonate	Department of Zoology, Guru Nanak Dev University, Scf 54, UT Market Grand Trunk Road, Off, NH 1, Amritsar, Punjab 143005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85106541524&doi=10.1093%2ftoxres%2ftfaa052&partnerID=40&md5=be00b3c216c08e755f7eedc459bcf1f9
3031	The rotary machine fault detection by hybrid method based on local mean decomposition and fluctuation based dispersion entropy	Department of Mechanical Engineering, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, Punjab, India; Machinery Fault Diagnostics Laboratory, Department of Mechanical Engineering, UIT, Guru Nanak Dev University, Amritsar, Punjab, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85104277783&doi=10.1016%2fj.matpr.2020.12.763&partnerID=40&md5=586b4835b82e34e5983843d6b5e85483
3032	Effect of integrated nutrient management on productivity and quality of malt barley (<i>Hordeum distichon</i> L.)	P.G. Department of Agriculture, Khalsa College, Guru Nanak Dev University, Amritsar-Punjab, 143 001, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85104206159&doi=10.18805%2fag-D-4980&partnerID=40&md5=ae509424d2178ada610a0309992f867c
3033	Examining the dynamics of customer adoption of retail loyalty programmes in India	GGs Khalsa College, Sarhali, Tarn Taran, India; University Business School, Guru Nanak Dev University, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85102191241&doi=10.1504%2fijecrm.2020.113430&partnerID=40&md5=764116ce33c8f8b177a814939f0f6684
3034	Role of Biochar in Heavy Metal Toxicity in Plants	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Division of Research and Development, Department of Research Facilitation, Lovely Professional University, Phagwara, Punjab, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India	6	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85102146331&doi=10.1007%2f978-3-030-45975-8_17&partnerID=40&md5=594760416a07dfee9525ea77d773038c

3035	Role of Beneficial Microbes in the Molecular Phytotoxicity of Heavy Metals	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Sant Baba Bhag Singh University Padhiana, Khiala, Jalandhar, Punjab, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Botany, School of Life Sciences, Satellite Campus Kargil, University of Kashmir, Jammu and Kashmir, India; Hans Raj Mahila Maha Vidyalyaya, Jalandhar, India	8	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85102129544&doi=10.1007%2f978-3-030-45975-8_13&partnerID=40&md5=4f36ed6fa41691496b6dfcc02e20b1da
3036	Pedobarographic analysis of balance in sporting and non-sporting population	MYAS-GNDU Department of Sport Sciences and Medicine, Guru Nanak Dev University, Amritsar, Punjab, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85098284652&partnerID=40&md5=85b33e1988a8064e93dc0f44ab67517b
3037	Employee engagement and its predictors: Literature review and a proposed model	University Business School, Guru Nanak Dev University, Amritsar, Punjab, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85097668475&doi=10.1504%2fIJBG.2020.111651&partnerID=40&md5=6f647ef8f59e4e8a78581304211c714b
3038	Performance comparison of all-optical logic gates using electro-optic effect in MZI-based waveguide switch at 1.46 μ m	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85097610711&doi=10.1515%2fjoc-2020-0125&partnerID=40&md5=f3f5c9d052fdcad66ef722108d1968e
3039	Maternal Mediation of Retail Food Promotions Directed at Children	Lyallpur Khalsa College, Jalandhar, Punjab, India; Guru Nanak Dev University, Amritsar, Punjab, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096380696&doi=10.1080%2f08974438.2020.1846653&partnerID=40&md5=097524bea8ada76040ca51eaea39a20f
3040	Microbial Diversity and their Biofilm Formation Potential in Pipes of Water Distribution System	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85095818236&doi=10.3233%2fAJW200058&partnerID=40&md5=5f89634838651490b40cc37c0a66be09
3041	From genotoxicity induction to recovery in different organs in fish channa punctatus after sub chronic exposure to 4- nonylphenol	Department of Fisheries, DGCN COVAS, CSKHPKV, Palampur, Himachal Pradesh, 176062, India; Department of Zoology, GNDU, Amritsar, Punjab, 143005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093082205&doi=10.18311%2ftt%2f2020%2fv27i1%262%2f25234&partnerID=40&md5=bfb3b09863b49ea53e407e0a55eb15c5
3042	A novel quantum-inspired solution for high-performance energy-efficient data acquisition from IoT networks	Department of Computer Science and Engineering, Lovely Professional University, Phagwara, India; Department of Computer Science and Informatics, Central University, Dharamshala, H.P., India; Department of Physics, GNDU Regional Campus, Gurdaspur, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092175897&doi=10.1007%2fs12652-020-02494-x&partnerID=40&md5=232d8173b4643cb2baf6937173cf76dc
3043	Understanding factors affecting technical debt	BBK DAV College For Women, Lawrence Road, Amritsar, India; Guru Nanak Dev University, Amritsar, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091797338&doi=10.1007%2fs41870-020-00487-9&partnerID=40&md5=f054864df8ef59b0f2a9dc81ff396c9c
3044	Seismic response of bentonite enhanced soils to be used as fabricated liner in engineered landfills	Department of Civil Engineering, Guru Nanak Dev University, Amritsar, India; Department of Civil Engineering, Punjab Engineering College (Deemed to be University), Chandigarh, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091145437&doi=10.1007%2f978-3-030-51350-4_34&partnerID=40&md5=f1ffeea12226ae84a3923d4bc211e7ee
3045	Error rate performance of potential multicarrier waveforms and coding techniques for 5G	Department of Engineering and Technology, Faculty of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091058429&doi=10.2174%2f2210327909666190409130000&partnerID=40&md5=97c2ebc38d9ac2ef58fea389ff2577be
3046	Using community detection technique in recommender system	DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, GURU NANAK DEV UNIVERSITY REGIONAL CAMPUS, India	1	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090617017&doi=10.37418%2famsj.9.6.52&partnerID=40&md5=2841bb1bd407ef1a268feafa8baf6237
3047	Investigation of anticancer and antitubercular activity of some medicinal plants	Lovely Professional University, Phagwara, India; Guru Nanak Dev University, Amritsar, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090352162&partnerID=40&md5=10c5b33669ab410ed402a01e4af6a25e
3048	Numerical solution of nonlinear oscillatory differential equations using shifted second kind Chebyshev wavelet method	Department of Mathematics, Guru Nanak Dev University, Amritsar, 143005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090158197&partnerID=40&md5=3b945d7cda54d472d394deea83c32532
3049	Five polypore species new to India	Department of Botany, Punjabi University, Patiala, Punjab, IN-147002, India; Department of Agriculture, Khalsa College, Amritsar, Punjab, IN-143002, India	4	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089597691&doi=10.33585%2fCMY.72202&partnerID=40&md5=131258085d4353b5ed192249e6c64126
3050	Radio over fiber (RoF) link modelling using cross term memory polynomial	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, India; Department of Electronics and Communication Engineering, Punjabi University, Patiala, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089453927&doi=10.1515%2fjoc-2020-0102&partnerID=40&md5=83f622130e2ed6a2cc2e49d60d00623f

3051	Role of plant growth regulators in ameliorating heavy metal caused oxidative stress in plants: An update	State Key Laboratory of Subtropical Silviculture, Zhejiang A & F University, Hangzhou, China; Department of Botany, DAV University, Sarmastpur, Jalandhar, Punjab, India; Department of Botany, Doaba College, Jalandhar, Punjab, India; Plant Stress Physiology Lab, Department of Botanical & Environmental Sciences, Guru Nanak Dev University, Amritsar, India; School of Bioengineering & Biosciences, Lovely Professional University Punjab, India; Centre for Life Sciences, Central University of Jharkhand, Brambe, Ranchi, India; Department of Zoology, Guru Nanak Dev University, Amritsar, India; School of Land and Food, University of Tasmania, Hobart, TAS, Australia	11	2020	1 year	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089058266&partnerID=40&md5=0e051d23e86bd204e8072e9df2f3c30e
3052	2*20 GBIT/S MDM-OFDM-IAOWC link with enhanced detection	DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, GURU NANAK DEV UNIVERSITY, REGIONAL CAMPUS, GURDASPUR, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088986341&doi=10.37418%2famsj.9.6.78&partnerID=40&md5=ee1898b0f213caa0d7c72abef681f3a1
3053	Hybrid mode-wavelength division multiplexing based ofdm-ro-fso link	DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, GURU NANAK DEV UNIVERSITY, REGIONAL CAMPUS, GURDASPUR, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088985074&doi=10.37418%2famsj.9.6.79&partnerID=40&md5=21f828aa4fe370ee42302097aad4c497
3054	Recent advances in nanotherapeutic interventions for the treatment of alzheimer's disease	Department of Pharmaceutics, Khalsa College of Pharmacy, Amritsar, Punjab, India; I.K. Gujral Punjab Technical University, Kapurthala, Punjab, India; Department of Oral & Maxillofacial Pathology and Microbiology, Sri Guru Ram Das Institute of Dental Sciences and Research, Amritsar, Punjab, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086792700&doi=10.2174%2f1381612826666200422092620&partnerID=40&md5=1f122fd606058db164269e89e1972944
3055	Quasi-opposition-Based Multi-verse Optimization Algorithm for Feature Selection	DAV University, Jalandhar, Punjab, India; Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085286718&doi=10.1007%2f978-981-15-3369-3_27&partnerID=40&md5=b429994ad00d95c475f53de760e90e40
3056	Putative functional non-coding polymorphisms in SELP significantly modulate sP-selectin levels, arterial stiffness and type 2 diabetes mellitus susceptibility	School of Medicine, Wayne State University, Detroit, MI, United States; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Carewell Heart and Superspeciality Hospital, Amritsar, Punjab, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084962401&doi=10.1186%2fs12902-020-00548-x&partnerID=40&md5=0a92a9e11928e5588b49f2dc00986f39
3057	Multi-agent based recommender system for Netflix	Department of Computer Science and Engineering, GNDU Regional Campus, Gurdaspur, Punjab 143521, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084702397&doi=10.1007%2f978-981-15-3020-3_20&partnerID=40&md5=a308e10432e64c2e1e0ad566313bf756
3058	Efficient vm migration policy in cloud computing environment	Department of Computer Engineering & Technology, Guru Nanak Dev University, Amritsar, India	3	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084701505&doi=10.1007%2f978-981-15-3020-3_36&partnerID=40&md5=6f3d138e957f91a1953249ce24e7ba03
3059	Prevalent general and preventive maintenance practices in Indian process industry	Department of Placements, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Industrial and Production Engineering, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, Punjab, India	3	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083331257&doi=10.1504%2fIJPQM.2020.106402&partnerID=40&md5=07f0d4181b1a2012dba66802e52823c3
3060	Performance evaluation of an all-optical multicasting strategy based on cross-gain modulation (XGM) in a single semiconductor optical amplifier (SOA)	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Electrical & Instrumentation Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab 147001, India	4	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081995748&partnerID=40&md5=0ef00883b47a1f97e9e341c5f8cf7cea
3061	Cold Spray Coating for Corrosive Conditions	Guru Nanak Dev University, Amritsar, Punjab, India	1	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081400763&doi=10.1007%2f978-3-030-36296-6_88&partnerID=40&md5=11cca9d2de39087124edb51cda19a87e
3062	Performance Comparison Between Different Dispersion Compensation Methods in an Optical Link	Department of Engineering and Technology, Guru Nanak Dev University, Regional Campus, Jalandhar, India; Department of Electronics and Communication Engineering, Punjabi University, Patiala, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081347942&doi=10.1007%2f978-981-15-1084-7_4&partnerID=40&md5=810d16a79377a387b7e6135ad52c9698
3063	A Hybrid Image Steganography Using Chaotic Maps in DCT Domain	Department of Electronics and Communication Engineering, Guru Nanak Dev	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-
3064	E-waste management strategy in organizations - A conceptual framework	University Business School, Guru Nanak Dev University, Amritsar, India	2	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85080024169&doi=10.31838%2fjcr.07.01.76&partnerID=40&md5=70bad51b74b9a9b5d8bd0946b1021208
3065	Serum hTERT level as sensitive biomarker with prognostic implications in breast, lung, gastric and liver cancers	Department of Zoology, Khalsa College, Amritsar, Punjab, 143001, India	1	2020	2 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079242279&partnerID=40&md5=cc31cf6c66d8f0055b86fb6be510a244

3066	Single particle spectrum of a nucleon in the harmonic oscillator mean field with spin-orbit coupling-A semiclassical view	Department of Physics, Swami Swatanand Memorial College, Bhanagar, 143531, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	2	2020	3 years	Collaborative Research	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078838700&doi=10.31349%2fRevMexFis.66.82&partnerID=40&md5=0f55677f8f7cdf7a95f54048de94ec4e
3067	National Students' Conference on Spectroscopy	Chemical Research Society of India (CRSI) (local chapter Chandigarh/Amritsar); in collaboration with American Chemical Society (ACS), Society for Promotion of Science and Technology (SPSTI), Panchkula, Punjab State Council for Science and Technology (PSCST), Chandigarh	500	2020	16th & 17th October, 2020	The conference was unique in looking for a thorough grasp on the principles, applications and strategies of some of the modern spectroscopic techniques and aims to give in-depth knowledge on the recent developments in spectroscopy by means of invited talks, pre-recorded demonstrations and poster presentations. Another aim of the conference was to enable the participants to learn basic principles and current developments in atomic and molecular spectroscopy. UG, PG and Ph.D. students from various universities and colleges were invited to participate in this conference.	http://punjabpost.in/welcome/180426 , http://tribunenewsline.com/gndu-to-organize-first-national-students-conference/ , https://youtu.be/lrc223QapJw , https://youtu.be/Lle2t2PKjxk
3068	"How to prevent cancers and lead a healthy life style" by Dr. Indu Bansal Aggarwal	Narayana Superspeciality Hospital	90	2020	October 30,2020	Webinar on cancer awareness and healthy lifestyle was delivered for the general audience	https://youtu.be/MHxTML9mYqg
3069	Vigyan safari"	Society for Promotion of Science and Technology (SPSTI)	200	2020	31-03-20	SciRox, Science Club GNDU launched moving science lab with science experiments and demonstrations for school students	https://www.youtube.com/watch?v=uu5lguqGtNc , https://spsti.org/scirox-gndu-and-spsti-launched-vigyan-safari-in-amritsar/ , https://www.tribuneindia.com/news/amritsar/gndu-to-launch-science-expo-bus-on-march-1-216821 , http://punjabpost.in/welcome/187271
3070	Mental health: lecture series	Pale Blue Dot	100	2020	October 10,2020 toOctober 31,2020	A month long lecture series was organised virtually for audience across the nation for mental health issues. Some of the speakers were internationally renowned.	https://youtu.be/NU5LLJXSGoQ
3071	Commonly committed mistakes in Covid19 illness and vaccine related frequently asked questions	Amandeep Hospital	70	2020	May 2, 2021	Interactive session by Dr. Vineet Sehgal, PGI Chandigarh shedding light on do's don't during Corona	Not Available
3072	Covid in kids	Amandeep Hospital	100	2020	May 22, 2021	Panel discussion by renowned doctors from Amritsar for taking preventive measures for covid in kids.	Not Available
3073	understanding online teaching	Maur Club	50	2020	June 27, 2021	A lecture series for educators on various resources during pandemic by Prof. V. Madhurima, Central University of Tamil Nadu.	https://youtu.be/avZBHj_9oDY

3074	Fundamental Sciences & Quantum Technologies using Atomic Systems (FSQT-2020)	Physical Research Lab, Ahmedabad	300	2020	28th September to 1st October, 2020	The goal of this meeting was to cover important research topics that are of current interest in atomic and molecular physics. Many leading theorists and experimentalists from various institutes and universities across India and abroad were invited to establish a strong and efficient collaboration for pursuing research on the aforementioned topics together, by exchanging ideas and bringing out subjects of mutual interest.	https://sites.google.com/view/fsqt2020/ , https://youtu.be/XzSvWgc_s4M , https://youtu.be/ejiovGtYu8M
3075	World ozone day	Punjab State Council for Science & Technology, ENVIS Hub, Punjab	70	2020	16 September, 2020	Web conference on world Ozone day including lectures from Dr. N. Srinivas, GITAM University and Dr. Jatinder Kaur, GNDU	https://youtu.be/irrtxN38cig
3076	STIP-2020	Not Available	50	2020	27 August, 2020	Panel discussion on “Science technology innovation policy 2020”	https://youtu.be/VEP6L5orefs
3077	MoU	Indigram Labs Foundation (ILF) New Delhi	Institutional	2020	Continuous	Joint Research, collaboration, mentorship, skill enhancement, capacity building etc.	https://online.gndu.ac.in/MOU/Indigram%20Labs.pdf
3078	MoU	Sabudh Foundation Mohali	Institutional	2020	5 Years	Collaboration, mentorship, Offer skill courses, capacity building etc.	https://online.gndu.ac.in/MOU/Sabudh%20foundation%20MoU.pdf
3079	MoU	College of Agriculture and Natural Resources, National Chung Hsing University, Taiwan	Institutional	2020	5 Years	Joint Research, collaboration, mentorship, capacity building, mobility etc.	https://online.gndu.ac.in/MOU/Chunghsingtaiwan.pdf
3080	MOA	College of Agriculture, Cornell University, USA	Institutional	2020	5 Years	Joint Research, collaboration, mentorship, capacity building, mobility etc.	https://online.gndu.ac.in/MOU/Cornell_University.pdf
3081	Interaction	Punjab Agriculture University, Ludhiana, Punjab	Institutional	2020	Not Available	Collaboration in Academic	https://online.gndu.ac.in/MOU/PunjabagriculturalUniversityludhiana.pdf
3082	International Webinar on "Sustainable Habitat and Circular Economy	Spatial Planning and Environment Research, Panchkula	105	2020	April 20-21, 2021	Collaboration	https://drive.google.com/file/d/1VZ8NOWyF5W334TuPSkhK1IOMk5AXhBJ/view?usp=sharing
3083	International Webinar on "Awareness on Prevention of Cancer &	Sanjeevani Life Beyond Cancer	95	2020	26 November,	Collaboration	Not Available
3084	Post- Covid Times"	Human Resource Development Centre (HRDC)	115	2020	19 November, 2020	Collaboration	https://drive.google.com/file/d/1VZ8NOWyF5W334TuPSkhK1IOMk5AXhBJ/view?usp=sharing
3085	Fundamental Science & Quantum Technologies using Atomic	PRL, Ahmedabad	110	2020	01 October, 2020	Collaboration	https://drive.google.com/file/d/1VZ8NOWyF5W334TuPSkhK1IOMk5AXhBJ
3086	Vitamin D Deficiency and Coronary Artery Disease	University Industry Linkage and Intellectual Property Rights cell	98	2020	17 February, 2020	Collaboration	https://drive.google.com/file/d/1VZ8NOWyF5W334TuPSkhK1IOMk5AXhBJ
3087	Radiochemistry and Application of Radiosotopes for 7 days	IANCAS and BARC	55	2020	04 February, 2020	Collaboration	https://drive.google.com/file/d/1VZ8NOWyF5W334TuPSkhK1IOMk5AXhBJ/view?usp=sharing