

# AQAR

ANNUAL QUALITY ASSURANCE REPORT (2018-19)



**INTERNAL QUALITY ASSURANCE CELL**

**GURU NANAK DEV UNIVERSITY  
AMRITSAR**



**राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद**

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

*An Autonomous Institution of the University Grants Commission*

# *Certificate of Accreditation*

*The Executive Committee of the  
National Assessment and Accreditation Council  
on the recommendation of the duly appointed  
Peer Team is pleased to declare the  
Guru Nanak Dev University  
Amritsar, Punjab as  
Accredited  
with CGPA of 3.51 on four point scale  
at A grade  
valid up to December 09, 2021*

*Date : December 10, 2014*



*DP Singh*  
Director

# A Q A R

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## FOREWORD

Guru Nanak Dev University, after being conferred with 'A++' accreditation and Category-I status by NAAC, has a responsibility to develop a system that offers steady growth, progress and improvement in the overall performance of the institution. Keeping in mind the previous accomplishments, the quality benchmark is already set at a very high scale and the University with its comprehensive vision aims to make consistent efforts to break its old records to form new ones. In the quest for excellence, the University through its print and digital media is committed to provide opportunities to the students to be a part of innumerable training programmes, seminars, and workshops. The present Annual Quality Assurance Report (AQAR) exhibits the compilation of meticulous development and progress of the University in diverse fields during the year 2018-19. The report is an evidence of all the significant accomplishments that Guru Nanak Dev University has made in this session.

Guru Nanak Dev University has achieved 17<sup>th</sup> rank according to INDIA TODAY-MDRA Best Universities Ranking, and has occupied 7<sup>th</sup> rank (in North Zone Universities) under the category of Multi-disciplinary Universities conducted by The WEEK-HANSA RESEARCH Best University Survey in 2019. It has bagged grants worth Crores from the Government of India for various fields that include Rs. 2.5 Crores for development of infrastructure from MHRD, Rs. 25 Crores for MYAS-GNDU Department, Rs 5 Crores for upgrading of auditorium and FDC, Rs. 7 Crores for providing facilities in FDC, Rs. 5.7 Crores for School of Education, and support for Botanical Garden. The Government of Punjab has also granted a sum of Rs. 25 Crores to upgrade the infrastructure of the University. In order to provide parking space for the students and the visitors, the University has constructed new parking areas near the entry gates. This year, the focus being on providing better working conditions to the students, renovation and customisation of the reading room in the Main Library has been done. The spacious reading space will accommodate more students that will allow them to study in conducive environment. Besides this, there have been student centric activities like the establishment of Clubs, creation of Facilitation Centre, provision of POS machines, creation of state-of-the-arts Gymnasium and upgrading of dining halls in hostels.

The University is determined to bring about change in the society and make it a better liveable place. It understands the importance of green and eco-friendly surroundings and has therefore, taken an initiative to install solar panels in the premises to curb environmental hazards. This will ensure sustainable use of natural resources that will be beneficial to environment and human race. The University has professed its devotion to nature by planting a number of trees in the campus. Trees help to beautify the campus as well as provide fresh and clean air. To keep the Campus pollution free, the University has also introduced bicycles and e-rickshaws for the students. Moreover, there has been an installation of 70 water coolers with RO through CRS funds to provide clean drinking water.

There has been tremendous growth in the last year as the University has upgraded and adapted itself to the changing needs of the world. Guru Nanak Dev University has the power to tackle all the challenges that come in the way of success. It believes in having far-sighted vision to ensure that the dreams of all those who become a part of this institution are fulfilled.



**(Prof. (Dr.) Jaspal Singh Sandhu)**  
**Vice-Chancellor**



## PREFACE

The Office of Internal Quality Assurance Cell of Guru Nanak Dev University, Amritsar (IQAC) has compiled the information on academic, administrative and financial activities and achievements of its University for Annual Quality Assurance Report: 2018-19 (AQAR) for the onward submission to National Assessment and Accreditation Council (NAAC). The report aims at highlighting the vision, mission and activities of the University towards attaining excellence.

The AQAR for the year 2018-19 highlights the accomplishments of the University in education, research as well as co-curricular activities. Guru Nanak Dev University has improved its NIRF rank from 59 in 2018 to 55 in 2019 in the 'University Category' at the All India Level according to the "India Rankings 2019" by National Institutional Ranking Framework (NIRF), Ministry of Human Resource Development, Government of India, New Delhi. Beside this, the University has scaled high in its rank from 20<sup>th</sup> in 2018 to 14<sup>th</sup> in 2019 in the 'Multi-Disciplinary Universities - All India Category' under 'The WEEK HANSA Research Survey for Best Universities'. In INDIA TODAY Survey the University has improved its rank from 20 in 2018 to 17 in 2019 in the category of 'Best Government Universities' in India. The University has not only excelled in teaching and learning but has also come up with high quality research publications in peer reviewed journals. For the same, the University has received higher research grants from various agencies as well.

An excellent placement record of the University over the years indicates effectiveness of the teaching-learning process followed in the University under the visionary and dynamic leadership of esteemed Vice-Chancellor and sincere efforts of the faculty, staff and students of the University.

I would like to extend my sincere thanks to the worthy Vice-Chancellor, Prof. Jaspal Singh Sandhu for extending his guidance and support to IQAC to carry out various activities in the interest of the University. I am grateful to the Dean Academic Affairs, Prof. Sarabjot Singh Behl and the Registrar, Prof. Karanjeet Singh Kahlon for their contributions in compiling the present AQAR. The efforts made by the IQAC Advisory Committee members in completing this report are duly acknowledged. IQAC remains indebted to the Heads of all Departments and the faculty of the University for furnishing the required information for the present AQAR. Sincere efforts of the IQAC staff are deeply acknowledged.

**(Prof. Ashwani Luthra)**  
**Director, IQAC**

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# ***Part - A***



1. DATA OF THE INSTITUTION	
Name of the Institution	Guru Nanak Dev University
Name of the Head of the Institution	Prof. Jaspal Singh Sandhu
Designation	Vice Chancellor
Does the Institution Function from own Campus	Yes
Phone no/Alternate Phone No.	0183-2258811
Mobile No.	99588-40701
Registered Email	iqac@gndu.ac.in
Alternate Email	vcgndu@gmail.com
Address	Guru Nanak Dev University, G.T Road
City/Town	Amritsar
State/UT	Punjab
Pin Code	143005

2. INSTITUTIONAL STATUS	
University	State
Type of Institution	Co-education
Location	Urban
Financial Status	State
Name of the IQAC Coordinator/Director	Prof. Ashwani Luthra
Phone No/Alternate Phone No.	0183-2255603
Mobile no.	81465-57234
Registered Email	iqac@gndu.ac.in
Alternate Email	ashwani.planning@gndu.ac.in

3. WEBSITE ADDRESS	
<b>Web-link of the AQAR: (Previous Academic Year)</b>	<a href="http://online.gndu.ac.in/pdf/AnnualQualityAssuranceReport(AQAR)201718.pdf">http://online.gndu.ac.in/pdf/AnnualQualityAssuranceReport(AQAR)201718.pdf</a>

4. ACADEMIC CALENDAR	
Whether Academic Calendar prepared during the year	Yes
if yes, whether it is uploaded in the institutional website: Web link :	<a href="http://online.gndu.ac.in/pdf/academic_Calendar201819.pdf">http://online.gndu.ac.in/pdf/academic_Calendar201819.pdf</a>

5. ACCREDITATION DETAILS					
Cycle	Grade	CGPA	Year of Accreditation	Validity Cycle	
				Period from	Period to
2	A	3.50	2007	22-Dec-2007	09-Dec-2012
3	A++	3.51	2014	10-Dec-2012	09-Dec-2021

6. ESTABLISHMENT OF IQAC	
Date of Establishment of IQAC	25-Nov-2002

**7. INTERNAL QUALITY ASSURANCE SYSTEM**

Quality initiatives by IQAC during the year for promoting quality culture

Item /Title of the quality initiative by IQAC	Date & Duration	No.of Participants/ Beneficiaries
NAAC revised framework awareness programme	12-Oct-2018 (1)	225
Academic Administrators workshop	21-Feb-2018 (1)	50

**8. PROVIDE THE LIST OF SPECIAL STATUS CONFERRED BY CENTRAL/ STATE GOVERNMENT- UGC/CSIR/DST/DBT/ICMR/TEQIP/WORLD BANK/CPE OF UGC ETC.**

Institution/Department/ Faculty	Scheme	Funding Agency	Year of Award with duration	Amount
Refer Annexure - I				

**9. COMPOSITION OF IQAC**

Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	Refer Annexure - II

**10. IQAC MEETINGS**

Number of IQAC meetings held during the year :	2
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	Refer Annexure - III

**11. IQAC FUNDING**

Whether IQAC received funding from any of the funding agency to support its activities during the year?	Yes
If yes, mention the amount	147614
Year	2018

**12. SIGNIFICANT CONTRIBUTIONS MADE BY IQAC****Significant contributions made by IQAC during the current year(maximum five bullets)**

1. AQAR 2017-18 was prepared by IQAC and approved by the Senate in its meeting held on 25-02-2019 vide letter no. 602/Syn/M dated 27.02.2019.
2. IQAC rules/chapter were framed and placed in Syndicate. The Syndicate in its meeting held on 15.10.2018 adopted them to be included in the University Calendar vide letter no. 5072-73/Syn/M dated 18.10.2018.
3. Annual Report 2018 was prepared by IQAC to be placed in the senate meeting.
4. NAAC sponsored workshop on Revised Accreditation Framework (RAF) was organized for the Punjab region on 12.10.2018. The Minister of Higher Education Punjab was Chief Guest and Prof V.S Chauhan, Chairman NAAC was Guest of Honor. About 255 Principals and IQAC Director from various colleges under three Universities (Guru Nanak Dev University, Punjabi University and Punjab University) participated in the workshop. Report of the workshop was made and submitted to NAAC Office, New Delhi.
5. Registration with MIS portal: The University has registered on MHRAMIS (Management Information System) portal. Data related to RUSA Project was uploaded on the portal.



### 13. PLAN OF ACTION CHALKED OUT BY THE IQAC IN THE BEGINNING OF THE ACADEMIC YEAR TOWARDS QUALITY ENHANCEMENT AND OUTCOME ACHIEVED BY THE END OF THE ACADEMIC YEAR

Monitoring of Teaching and Learning Processes.	Encouraged the use of interactive audio-visual systems in class rooms for improving teaching-learning methods.
To work on the recommendations of NAAC Peer Team.	Effective implementation of the NAAC Committee recommendations is under process.
Documentation of various activities in the University.	Acted as a Nodal Agency for participating in various surveys like National Institutional Ranking Framework (NIRF), The Week, India Today, AISHE Survey etc.
Monitoring of Teaching and Learning Processes.	Encouraged the use of interactive audio-visual systems in class rooms for improving teaching-learning methods.
Refer Annexure - IV	

### 14. AQAR PLACED BEFORE STATUTORY BODY

Whether AQAR was placed before statutory body?	Yes
Name of Statutory Body	Advisory Committee of IQAC/ Senate of the University
Meeting Date	May 21, 2020

### 15. VISIT OF NAAC/OR ANY OTHER ACCREDITED BODY(S)

Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning?	Yes
Date of Visit	September 22, 2018

### 16. INSTITUTIONAL DATA SUBMITTED TO AISHE

Whether institutional data submitted to AISHE:	Yes
Year of Submission	2019
Date of Submission	22-May-2019

### 17. MANAGEMENT INFORMATION SYSTEM

Does the Institution have Management Information System?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	
<p>Digital Initiatives:</p> <ol style="list-style-type: none"> <li>1. Increased the Internet Bandwidth Scheme of GNDU Campus from 10 Mbps to 1Gbps through National Knowledge Network (NKN), Ministry of Electronics and Information Technology, Government of India. Increased Bandwidth will ensure fast and high quality internet connectivity for the students of GNDU.</li> <li>2. The University has launched various portals to streamline the important processes in the Institution as per following: <ol style="list-style-type: none"> <li>a. Employee Portal</li> <li>b. Research Development Portal</li> <li>c. College Development Council Portal</li> <li>d. Lecture Basis (Part Time) Teacher's Payment Portal</li> <li>e. Guest House Portal</li> <li>i. Faculty Profile Portal</li> </ol> </li> </ol>	



- f. e-Transcript/Verification Portal
- 3. A new website for Alumni Association has been launched to reach out more and more Alumni of the university throughout the Country and also outside India. Also FCRA registration is being done to streamline the funding offered by Foreign Alumni for the support and wellbeing of the students in GNDU. Anyone can donate to GNDU in the related field of his/her interest.
- 4. GNDU has made its appearance on Social Media. A Facebook page, Instagram and Twitter handle have been launched and are being constantly monitored and updated.
- 5. An SMS system has been introduced to keep parents of the campus students updated about their Attendance.
- 6. Computer Centre of GNDU has been renamed as “Centre for IT Solutions” and is providing IT solutions to different Departments of University, Regional Campuses, University Colleges and Constituent Colleges. The centre is also providing IT consultancy services to Government and Public Sector on payment basis for regularly improving the financial health of University. The centre is playing an important role in development and deployment of various software applications in various branches of the University. It has also initiated the integration of already working software applications on a single platform to manage the data in a centralized data repository so as to meet the vision of University authorities.
- 7. Mobile network boosters have been installed in the University Campus to ensure uninterrupted mobile signals.
- 8. File tracking system launched for speed up the process of moving file along with tracking the status/delay of files online at any stage.
- 9. The University has taken an important initiative to establish in house “Hardware Cell” under Centre for IT Solutions to handle day today hardware (Computer/Printer/ Photostat/Scanners/UP) related issues, filling up of toners for printers/ Photostat Machines and issues related to Boom barriers installed in the University. The establishment of this cell has definitely facilitated the Offices, Departments and different branches in the institution and moreover enhanced the efficiency due to which a substantial amount of money is being saved. The University has also taken initiative to establish in house “Internet Maintenance Cell” under Centre for IT Solutions to handle day today Internet related issues in the Offices, Departments and different branches of the University. The establishment of this cell has ensured the 24/7 internet connectivity in the University Campus and facilitated the teachers, students and employees to perform their educational activities effectively and efficiently.



## ***Part - B***

**CRITERION I – CURRICULAR ASPECTS****1.1 – Curriculum Design and Development****1.1.1- Programmes for which syllabus revision was carried out during the Academic year**

Name of Programme	Programme Code	Programme Specialization	Date of Revision
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Refer Annexure - V

**1.1.2- Programmes/ Courses Focussed on Employability/ Entrepreneurship/ Skill Development during the Academic Year**

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
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Refer Annexure - VI

**1.2 – Academic Flexibility****1.2.1 – New Programmes/Courses Introduced during the Academic Year**

Programme/Course	Programme Specialization	Dates of Introduction
M. Tech	Environmental Science & Technology	28/02/2018
B.Sc	Botany	28/02/2018
B.Sc	Medical Lab Technology	28/10/2018
B.Sc	Mathematics	28/02/2018
M.Sc	Zoology	28/02/2018
B.Sc	Mathematics	28/02/2018
M.Arch	Architecture	28/02/2018
B.A. (Journalism)	Journalism and Mass Communication	28/02/2018
B.Tech	Textile Processing Technology	28/02/2018
M.Sc	Applied Chemistry	28/02/2018

**1.2.2 – Programmes in which Choice Based Credit System (CBCS)/ Elective Course System implemented at the University level during the Academic year.**

Name of Programme Adopting CBCS	Programme Specialization	Date of Implementation of CBCS/ Elective Course System
M.A.	History	01/07/2018
M.A.	Sociology	01/07/2018
B.Lib.Sc	Library & Information Science	01/07/2018
M.Lib.Sc	Library & Information Science	01/07/2018
M.A.	Psychology	01/07/2018
B.A.	Social Sciences	01/07/2018
M.A.	Philosophy	01/07/2018
M.A.	Religious Studies	01/07/2018
M.Ed	Education	01/07/2018
M.A.	Education	01/07/2018
M.A.	Sanskrit	01/07/2018
B.A.	Punjabi	01/07/2018
M.A.	Punjabi	01/07/2018
M.A.	English	01/07/2018
M.A.	Hindi	01/07/2018
M.A.	Business Economics	01/07/2018
B.Sc	Economics	01/07/2018



M.Sc	Economics	01/07/2018
M.Com	Commerce	01/07/2018
MBA	Business Administration	01/07/2018
MBA	Marketing Management	01/07/2018
MBA	Hospital Administration	01/07/2018
MBA	Financial Analysis	01/07/2018
MBA	Human Resource Development	01/07/2018
B.Sc	Chemistry	01/07/2018
M.Sc	Chemistry	01/07/2018
M.Sc	Applied Chemistry (Pharma)	01/07/2018
B.Sc	Physics	01/07/2018
M.Sc	Physics	01/07/2018
M.Sc	Physics	01/07/2018
M.Sc	Mathematics	01/07/2018
B.Tech	Food Technology	01/07/2018
M.Sc	Food Technology	01/07/2018
M.Sc	Botany	01/07/2018
M.Sc	Environment Science	01/07/2018
M.Sc	Molecular Biology & Biochemistry	01/07/2018
M.Sc	Zoology	01/07/2018
M.Sc	Microbiology	01/07/2018
M.Sc	Biotechnology	01/07/2018
B.Sc	Human Genetics	01/07/2018
M.Sc	Human Genetics	01/07/2018
M.Sc	Human Genetics	01/07/2018
B.Pharm	Pharmacy	01/07/2018
M.Pharm	Pharmacy	01/07/2018
M.A.	Political Science	01/07/2018
B.Arch	Architecture	01/07/2018
M.Arch	Urban Design	01/07/2018
B.Tech	Urban and Regional Planning	01/07/2018
M.Tech	Urban Planning	01/07/2018
B.Plan	Urban and Regional Planning	01/07/2018
M.Plan	Infrastructure Planning	01/07/2018
MPA	Music (Vocal)	01/07/2018
MPA	Music (Instrumental)	01/07/2018
MCA	Computer Applications	01/07/2018
MCA	Computer Applications	01/07/2018
B.Tech	Computer Science and Engineering	01/07/2018
M.Tech	Computer Science and Engineering	01/07/2018
B.Tech	Electronics & Communication Engineering	01/07/2018
M.Tech	Electronics & Communication Engineering	01/07/2018
BPT	Physiotherapy	01/07/2018
MPT	Orthopaedic	01/07/2018
BA.LLB	Law	01/07/2018
LLB	Law	01/07/2018
LLM	Law	01/07/2018
B.PEd	Physical Education	01/07/2018



B.PES	Physical Education and Sports	01/07/2018
M.PEd	Physical Education	01/07/2018
MPT	Sports Physiotherapy	01/07/2018
M.Sc	Sports Nutrition	01/07/2018
M.Sc	Exercise and Sports Psychology	01/07/2018
M.A.	Sports Psychology	01/07/2018
B.Com	Commerce	01/07/2018
MBA	Finance	01/07/2018
M.Com	Commerce	01/07/2018
B.Sc	Mathematics	01/07/2018
B.Sc	Medical lab technology	01/07/2018
B.Sc	Botany	01/07/2018
B.Tech	Computer Engineering	01/07/2018
B.Tech	Textile Processing Technology	01/07/2018
M.Sc	Chemistry	01/07/2018
MBA	Business Administration (FYIC)	01/07/2018
M.Sc	Zoology (FYIC)	01/07/2018
B.HMCT	Hotel Management and Catering Technology	01/07/2018
BTTM	Tourism and Travel Management	01/07/2018
M.Arch	Sustainable Built Environment	01/07/2018
B.Tech	Mechanical Engineering	01/07/2018
B.PEd	Civil Engineering	01/07/2018
M.Plan	Urban Planning	01/07/2018

**1.3.1 – Value-added Courses Imparting Transferable and Life Skills offered during the Year**

Value Added Courses	Date of Introduction	Number of Students Enrolled
Refer Annexure - VII		

**1.3.2 – Field Projects / Internships undertaken during the Year**

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
Refer Annexure - VIII		

**1.4 – Feedback System****1.4.1 – Whether Structured Feedback received from all the Stakeholders?**

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

**1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)**

The feedback about the curriculum and the teaching practices being followed is taken from the students at the Departmental and University level by the respective Head of the Department and the worthy Vice Chancellor of the University face to face as well via email. The feedback is also taken from other stakeholders like parents, alumni and employers. The information thus collected is carefully analyzed to identify The areas of improvement to better the academic, professional and entrepreneurial skills of the students and thus increase their employability potentials.

**CRITERION II – TEACHING - LEARNING AND EVALUATION****2.1 – Student Enrolment and Profile****2.1.1 – Demand Ratio during the Year**

Name of the Programme	Programme Specialization	Number of Seats Available	Number of Application Received	Students Enrolled
Refer Annexure - IX				

**2.2 – Catering to Student Diversity****2.2.1 – Student - Full Time Teacher Ratio (current year data)**

Year	Number of Students Enrolled in the Institution (UG)	Number of Students Enrolled in the Institution (PG)	Number of Fulltime Teachers Available in the Institution Teaching only UG Courses	Number of Fulltime Teachers Available in the Institution Teaching only PG Courses	Number Of Teachers Teaching Both UG and PG Courses
2018	4626	4049	503	503	503

**2.3 – Teaching - Learning Process****2.3.1 – Percentage of Teachers using ICT for Effective Teaching with Learning Management Systems (LMS), E-learning Resources etc. (Current Year Data)**

Number of Teachers on Roll	Number of Teachers using ICT (LMS, e-Resources)	ICT Tools & Resources Available	Number of ICT Enabled Classrooms	Number of Smart Classrooms	E-resources & Techniques Used
503	453	7	279	197	7

**2.3.2 – Students Mentoring System Available in the Institution? Give Details. (maximum 500 words)**

The feedback about the curriculum and the teaching practices being followed is taken from the students at the Departmental and University level by the respective Head of the Department and the worthy Vice Chancellor of the University face to face as well via email. Also, the feedback is taken from other stakeholders like parents, alumni and employers. The information thus collected is carefully analysed to identify the areas of improvement to better the academic, professional and entrepreneurial skills of the students and thus increase their employability potentials.

Number of Students Enrolled in the Institution	Number of Fulltime Teachers	Mentor : Mentee Ratio
8675	295	1 : 30

**2.4 – Teacher Profile and Quality****2.4.1 – Number of Full Time Teachers Appointed during the Year**

No. of Sanctioned Positions	No. of Filled Positions	Vacant Positions	Positions Filled During the Current Year	No. of Faculty with Ph.D
745	295	450	19	261





**2.4.2 – Honours and Recognition Received by Teachers  
(received awards, recognition, fellowships at state, national, international level  
from government, recognised bodies during the year )**

Year of Award	Name of Full Time Teachers Receiving Awards from State Level, National Level, International Level	Designation	Name of the Award, Fellowship, Received from Government or Recognized Bodies
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Refer Annexure – X

**2.5 – Evaluation Process and Reforms**

**2.5.1 – Number of Days from the Date of Semester-end/ year- end Examination till  
the Declaration of Results during the Year**

Programme Name	Programme Code	Semester/ Year	Last Date of the Last Semester-End/ Year- End Examination	Date of Declaration of Results of Semester-End/ Year- End Examination
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Refer Annexure - XI

**2.5.2 – Average Percentage of Student Complaints/Grievances about Evaluation  
against Total Number Appeared in the Examinations During the Year**

Number of Complaints or Grievances about Evaluation	Total Number of Students Appeared in the Examination	Percentage
411	8675	4.74

**2.6 – Student Performance and Learning Outcomes**

**2.6.1 – Program Outcomes, Program Specific Outcomes and Course Outcomes for  
all Programs Offered by the Institution are Stated and Displayed in Website of the  
Institution (to provide the web link)**

<http://online.gndu.ac.in/pdf/Prospectus2018-19.pdf>

**2.6.2 – Pass Percentage of Students**

Programme Code	Programme Name	Programme Specialization	Number of Students Appeared in the Final Year Examination	Number of Students Passed in Final Year Examination	Pass Percentage
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Refer Annexure - XII

**2.7 – Student Satisfaction Survey**

**2.7.1 – Student Satisfaction Survey (SSS) on Overall Institutional Performance  
(Institution may design the questionnaire) (results and details be provided as web link)**

<http://online.gndu.ac.in/>

**CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION****3.1 – Promotion of Research and Facilities****3.1.1 – Teachers Awarded National/International Fellowship for Advanced Studies/ Research during the Year**

Type	Name of the Teacher Awarded the Fellowship	Name of the Award	Date of Award	Awarding Agency
Refer Annexure - XIII				

**3.1.2 – Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and Other Fellows in the Institution Enrolled during the Year**

Name of Research Fellowship	Duration of the Fellowship	Funding Agency
Refer Annexure - XIV		

**3.2 – Resource Mobilization for Research****3.2.1 – Research Funds Sanctioned and Received from Various Agencies, Industry and Other Organizations**

Nature of the Project	Duration	Name of the Funding Agency	Total Grant Sanctioned	Amount Received During the Year
Refer Annexure - XV				

**3.3 – Innovation Ecosystem****3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative Practices during the Year**

Title of Workshop/Seminar	Name of the Dept.	Date
Refer Annexure - XVI		

**3.3.2 – Awards for Innovation Won by Institution/Teachers/Research Scholars/Students during the Year**

Title of the Innovation	Name of Awardee	Awarding Agency	Date of Award	Category
Refer Annexure - XVII				

**3.3.3 – No. of Incubation Centre Created, Start-Ups Incubated on Campus during the Year**

Incubation Centre	Name	Sponsored by	Name of the Start-up	Nature of Start-up	Date of Commencement
0	NA	NA	NA	NA	30/06/2019

**3.4 – Research Publications and Awards****3.4.1 – Ph.Ds Awarded during the Year**

Name of the Department	Number of Ph.D's Awarded
Punjab School of Economics	5
School of Punjabi Studies	8
University Business School	4
University School of Financial Studies	9
Biotechnology	7



Botanical Environmental Sciences	9
Chemistry	4
Computer Science	4
Education	3
Electronics Technology	2
English	1
Food Science Technology	8
Hindi	3
History	6
Human Genetics	4
Journalism Mass Communication	2
Laws	5
Library Information Science	2
Mathematics	1
Microbiology	2
Molecular Biology Biochemistry	2
Music	3
Pharmaceutical Sciences	3
Physical Education	1
Physics	13
Political Science	3
Psychology	7
Punjabi	1
Sanskrit	1
Zoology	5
MYAS GNDU Department of Sports Science Medicine	1

**3.4.2 – Research Publications in the Journals Notified on UGC Website during the Year**

Type	Department	Number of Publication	Average Impact Factor (if any)
Refer Annexure - XVIII			

**3.4.3 – Books and Chapters in Edited Volumes / Books Published, and Papers in National/International Conference Proceedings per Teacher during the Year**

Department	Number of Publication
Refer Annexure - XIX	

**3.4.4 – Patents Published/Awarded/Applied during the Year**

Patent Details	Patent Status	Patent Number	Date of Award
B. S. Chadha, K. Brar, B. Kaur, N. Basotra (2018) Enzyme Preparations Produced by Thermotolerant Fungal Stains	Filed	24758	24/08/2018
V. Kumar, M. Sharma, A.K. Thukral and R. Bhardwaj (2018) Germination Tube. Design No. 311150	Filed	18139	17/10/2018

**3.4.5 – Bibliometrics of the Publications During the Last Academic Year Based on Average Citation Index in Scopus/ Web of Science or Pubmed/ Indian Citation Index**

Title of the Paper	Name of Author	Title of Journal	Year of Publication	Citation Index	Institutional Affiliation as Mentioned in the Publication	Number of Citations excluding Self-Citation
Refer Annexure - XX						

**3.4.6 – h-Index of the Institutional Publications during the Year.  
(based on Scopus/ Web of science)**

Title of the Paper	Name of Author	Title of Journal	Year of publication	h-Index	Number of Citations excluding Self-Citation	Institutional Affiliation as Mentioned in the Publication
Refer Annexure - XXI						

**3.4.7 – Faculty Participation in Seminars/Conferences and Symposia during the Year**

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	55	187	45	20
Presented Papers	81	196	28	13
Resource Persons	29	114	23	13

**3.5 – Consultancy****3.5.1 – Revenue generated from Consultancy during the year**

Name of the Consultant(s) Department	Name of Consultancy Project	Consulting/ Sponsoring Agency	Revenue Generated (amount in rupees)
Refer Annexure - XXII			

**3.5.2 – Revenue Generated from Corporate Training by the Institution during the Year**

Name of the Consultant(s) Department	Title of the Programme	Agency seeking Training	Revenue Generated (amount in rupees)	Number of Trainees
0	Nil	Nil	0	0

**3.6 – Extension Activities****3.6.1 – Number of Extension and Outreach Programmes Conducted in Collaboration with Industry, Community and Non-Government Organizations through NSS/NCC/Red Cross/Youth Red Cross (YRC) etc., during the Year**

Title of the Activities	Organizing Unit/Agency/ Collaborating Agency	Number of Teachers Participated in such Activities	Number of Students Participated in such Activities
Refer Annexure - XXIII			

**3.6.2 – Awards and Recognition Received for Extension Activities from Government and Other Recognized Bodies during the Year**

Name of Activity	Award/Recognition	Awarding Bodies	Number of Students Benefited
Refer Annexure - XXIV			



### 3.6.3 – Students Participating In Extension Activities With Government Organizations, Non-Government Organizations and Programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the Year

Name of the Scheme	Organizing Unit/Agency/ Collaborating Agency	Name of the Activity	Number of Teachers Participated in such Activities	Number of Students Participated in such Activities
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Refer Annexure - XXV

### 3.7 – Collaborations

#### 3.7.1 – Number of Collaborative Activities for Research, Faculty Exchange, Student Exchange during the Year

Nature of Activity	Participant	Source of Financial Support	Duration
Nil	0	Nil	0

#### 3.7.2 – Linkages with Institutions/Industries for Internship, On-The- Job Training, Project Work, Sharing Of Research Facilities etc. during the Year

Nature of Linkage	Title of the Linkage	Name of the Partnering Institution/ Industry /Research Lab with Contact Details	Duration From	Duration To	Participant
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Refer Annexure - XXVI

#### 3.7.3 – MoUs Signed with Institutions of National, International Importance, Other Universities, Industries, Corporate Houses etc. during the Year

Organization	Date of MoU Signed	Purpose/Activities	Number of Students/Teachers Participated under MoUs
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Refer Annexure - XXVII



**CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES****4.1 – Physical Facilities****4.1.1 – Budget Allocation, Excluding Salary for Infrastructure Augmentation during the Year**

Budget Allocated for Infrastructure Augmentation (in Rupees)	Budget Utilized for Infrastructure Development (in Rupees)
259500000	133186951

**4.1.2 – Details of Augmentation in Infrastructure Facilities during the Year**

Facilities	Existing or Newly Added
Refer Annexure - XXVIII	

**4.2 – Library as a Learning Resource****4.2.1 – Library is automated {Integrated Library Management System (ILMS)}**

Name of the ILMS Software	Nature of Automation (fully or partially)	Version	Year of Automation
Customize Software (GNDU)	Partially	MS-BOS	2006

**4.2.2 – Library Services**

Library Service Type	Existing	Newly Added	Total
Refer Annexure - XXIX			

**4.2.3 – E-Content Developed by Teachers such as: E-PG- Pathshala, CEC (Under E-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCS Platform NPTEL/NMEICT/any other Government Initiatives & Institutional (Learning Management System (LMS) etc.**

Name of the Teacher	Name of the Module	Platform on which Module is Developed	Date of Launching e-Content
NA	NA	NA	NA

**4.3 – IT Infrastructure****4.3.1 – Technology Upgradation (Overall)**

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	2826	10	1	4	1	74	38	1000	0
Added	250	2	0	2	0	0	1	500	0
Total	3076	12	1	6	1	74	39	1500	0

**4.3.2 – Bandwidth available of Internet Connection in the Institution (Leased Line)**

1500 Mbps/ Gbps

**4.3.3 – Facility for e-Content**

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
E-journals, E-books are available for faculty and the students	<a href="http://library.gndu.ac.in/">http://library.gndu.ac.in/</a>

**4.4 – Maintenance of Campus Infrastructure****4.4.1 – Expenditure incurred on Maintenance of Physical Facilities and Academic Support Facilities, Excluding Salary Component during the Year**

Assigned Budget on Academic Facilities (in Rupees)	Expenditure Incurred on Maintenance of Academic Facilities (in Rupees)	Assigned Budget on Physical Facilities (in Rupees)	Expenditure Incurred on Maintenance of Physical Facilities (in Rupees)
174191248	93604312	289071465	196051572

**4.4.2 – Procedures and Policies for Maintaining and Utilizing Physical, Academic and Support Facilities - Laboratory, Library, Sports Complex, Computers, Classrooms etc. (maximum 500 words)  
(information to be available in institutional Website, provide link)**

The University Campus has various lecture halls, auditoriums, seminar halls and sports complexes which can be used by any department for the Various academic, cultural as well as sports activities. For this, prior permission from the competent authority is needed. Various departments in the Faculty of Sciences have high-end instruments in addition to the central instrumentation facility. Any student (within or outside GNDU) can use these instruments for their work with prior permission from the concerned person-in-charge. Each department as well as the hostels has their own computer labs available for the students.

<http://www.gndu.ac.in>

**CRITERION V – STUDENT SUPPORT AND PROGRESSION****5.1 – Student Support****5.1.1 – Scholarships and Financial Support**

	Name/Title of the Scheme	Number of Students	Amount in Rupees
Financial Support from Institution	Full/ Half Fees Concession Handicapped, Employees Ward, Riots Affected, Player Quota	1026	35529428
Financial Support from Other Sources			
a) National	NIL	0	0
b) International	NIL	0	0

**5.1.2 – Number of Capability Enhancement and Development Schemes such as Soft Skill Development, Remedial Coaching, Language Lab, Bridge Courses, Yoga, Meditation, Personal Counselling and Mentoring Etc.,**

Name of the Capability Enhancement Scheme	Date of Implementation	Number of Students Enrolled	Agencies Involved
Refer Annexure - XXX			

**5.1.3 – Students Benefited by Guidance for Competitive Examinations and Career Counselling offered by the Institution during the Year**

Year	Name of the Scheme	Number of Benefited Students for Competitive Examination	Number of Benefited Students by Career Counseling Activities	Number of Students who have Passed in the Comp. Exam	Number of Students Placed
Refer Annexure - XXXI					

**5.1.4 – Institutional Mechanism for Transparency, Timely Redressal of Student Grievances, Prevention of Sexual Harassment and Ragging Cases during the Year**

Total Grievances Received	Number of Grievances Redressed	Avg. Number of Days for Grievance Redressal
18	18	7

**5.2 – Student Progression****5.2.1 – Details of Campus Placement during the Year**

On Campus			Off Campus		
Name of Organizations Visited	Number of Students Participated	Number of Students Placed	Name of Organizations Visited	Number of Students Participated	Number of Students Placed
Refer Annexure - XXXII					

**5.2.2 – Student Progression to Higher Education in Percentage during the Year**

Year	Number of Students Enrolling into Higher Education	Programme Graduated from	Department Graduated from	Name of Institution Joined	Name of Programme Admitted to
Refer Annexure - XXXIII					



### 5.2.3 – Students Qualifying in State/ National/ International Level Examinations during the year (eg: NET/SET/SLET/GATE/GMAT/CAT/GRE/ TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
NET	101
GATE	46
Any Other	20

### 5.2.4 – Sports and Cultural Activities/ Competitions Organized at the Institution Level during the Year

Activity	Level	Number of Participants
Refer Annexure - XXXIV		

## 5.3 – Student Participation and Activities

### 5.3.1 – Number of Awards/Medals for Outstanding Performance in Sports/Cultural Activities at National/International level (award for a team event should be counted as one)

Year	Name of the Award/Medal	National/ International	Number of Awards for Sports	Number of Awards for Cultural	Student ID Number	Name of the Student
Refer Annexure - XXXV						

### 5.3.2 – Activity of Student Council & Representation of Students on Academic & Administrative Bodies/Committees of the Institution (Maximum 500 Words)

The students are well represented in the various academic and administrative committees like Anti-Ragging committee, Poor-Aid fund committee, Grievance Cell, Foreign Student committee, IQAC, Equal opportunity Cell etc. In addition, each class has a student representative who is a member of the Student Council. Yearly elections to select executive members of the Student Council are held under the chairmanship of Dean Students Welfare.

## 5.4 – Alumni Engagement

### 5.4.1 – Whether the Institution has Registered Alumni Association?

Yes

The alumni of the University have risen to great heights in diverse fields in the country and abroad. They are holding key positions in the Judiciary, IFS, IAS, PCS, Indian Police Services, Central Services, Educational Services and Punjab Civil Services. Some of them are well placed throughout the world serving in prestigious private sectors like Intel, Siemens, GE, Accenture, HAL USRO, PG, HC, Broadcom, Amazon, ST-Microelectronics etc. Our alumni have equally credible achievements in academics occupying the posts of Vice-Chancellors of various Central State Universities and have also excelled in research in their respective fields. The alumni have equally excelled in IT, Pharmaceutical and other top industries and even have attained the top positions in multinational industrial houses and among the top inventors in the world. Guru Nanak Dev University Alumni Association was setup in the year 2007. In the beginning, only offline membership facility was available, but now the University has re-dedicated itself to the cause of the “Alumni” by launching a website to strengthen the relationship with alumni settled in India and abroad. The



alumni can register themselves online on this portal (<http://alumni.gndu.ac.in>). The registration is completely free of charge. After registration, the alumni are provided with a unique ID/password to edit/update their information. The website is also updated with the achievements of the Alumni and the University from time to time. A portion for the Achievers Alumni has also been kept on the website, which provides a brief profile of the renowned Alumni. The alumni can also put their views about the University on this website. Thus, the website has become a platform for the Alumni to stay connected through Alumni Association. The office is regularly collecting the details of alumni from the various departments, colleges and regional campuses of GNDU and reconciles the list to strengthen the database. A total of 13248 alumni members have registered themselves on the alumni website till end of May 2019. The Alumni Association has its own Executive Council which was formed in the year 2015 and new members are being elected every year. The University is in process to obtain permissions from the government to receive contribution/funds from the alumni settled in India and in foreign countries.

#### **5.4.2 – No. of Registered Alumni:**

13248

#### **5.4.3 – Alumni Contribution during the Year (in Rupees)**

0

#### **5.4.4 – Meetings/Activities Organized by Alumni Association**

The Office of Dean Alumni Association also organized a University Level Alumni Meet on February 09, 2019 under the supervision and leadership of our dynamic Vice-Chancellor Prof. (Dr.) J.S. Sandhu. About 400 alumni participated in this Alumni Meet and shared their experiences and views with other participants. In the meet, the alumni emphasized to increase the activities of the association and appealed to the alumni to even generate funds for the Alma mater. Justice Fatehdeep Singh (Hon'ble Judge, Punjab Haryana High Court) S. Dilbag Singh (DGP, J K) Dr. Manmohan Singh (IPS) Additional Director Intelligence Bureau, S. Gurdev Singh Sahota (ADGP-Retd.) Dr. Kunwar Vijay Pratap Singh (IGP First Vice-President of AAGNDU Executive Council) S. Manjit Singh Nijjar (Second Vice President of AAGNDU Executive Council) from UK Mr. Rohit Mehra (Commissioner IT Ludhiana) Mr. Manohar Kant Lakhota (Chairman, PSEB) Dr. Jasbir Singh Hundal (Registrar, Maharaja Ranjit Singh Punjab Technical University, Bathinda) Mr. Rajesh Sharma (Secretary, Education) Ranjit Bawa and Satinder Satti (both renowned Singer TV/Cinema Artists), S. Balwinder Singh (Secretary, Dharam Prachaar Committee) and many State Town Planners, Industrialists have attended this grand event. On this occasion, Dr. Kulwant Singh Dhaliwal (World Cancer Charitable Society) also shared his life experiences and views with the alumni of the University who attended the Alumni Meet-2019.

The Executive Council of AAGNDU regularly meets and the members participate and discuss the progress and future plans of the Association. The members also discuss and evaluate the nominations; of the members required for Executive Council of AAGNDU.

Regular meetings are also held in office of Dean Alumni with the Alumni Teacher-in-Charges from various departments under the: Faculty of Arts, Social Sciences, Economics Business, Engineering Technology, Sciences, Life Sciences, Languages,



Physical Planning Architecture, Education, Humanities Religious Studies, Faculty of Physical Education, Sports Medicine Physiotherapy, Visual Performing Arts, LAWS and various departments from the Regional Campuses at Jalandhar, Gurdaspur, Sathiala Fattu Dyingha.

All these meetings helped in making the connectivity between Alumni Teacher-in-Charges and the alumni office.

One of our renowned alumnus, Dr. Gurtej Singh Sandhu, was conferred upon Hon. Causa Ph.D in the Convocation in 2019 and addressed the audience. He is one of the top five inventors in the world top 4th world rank scientist, as measured by number of U.S. utility patents (1,300 U.S. utility patents), has been declared the sole recipient of Andrew S. Grove award 2018 by Institute of Electrical and Electronics Engineers, USA. Wikipedia read him as Indian inventor in the fields of thin films processes and materials and Semiconductor device fabrication. Currently he is the Vice-President of “Micron Technology, USA”, he has also been named Among Top 100 Global Innovators for Sixth Straight Year. An Invited talk was also organized by AAGNDU at University Campus on March 06, 2019, in which Dr. Gurtej Singh Sandhu has expressed his views on “Future of Technology and Role of Innovation”, which was attended by 500 participants.

Dr. Dharambir K. Sanghera, Professor of Pediatrics, an Adjunct Professor of Pharmaceutical Sciences, and Director of the Genetic Epidemiology Laboratory at the University of Oklahoma Health Sciences Center (UOHSC) Sanghera visited University on May 08-09, 2019 for signing an MoU with the Guru Nanak Dev University and also delivered a talk on “Genetic Drivers of Cardio-Metabolic Disease: Opportunities for Precision Therapeutics”.

**CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT****6.1 – Institutional Vision and Leadership****6.1.1 – Mention Two Practices of Decentralization and Participative Management during the Last Year (Maximum 500 Words)**

The University follows decentralized management system whereby policy and decisions made by the higher authorities of the University are implemented through different Heads of Teaching and Non-Teaching Department. For the purpose of planning and development of academic, professional and administrative policies, guidelines and norms the University has constituted different committees whose recommendation are adopted for bettering the quality of education and improving the professionalism among the teachers, administrative and students of the University.

**6.1.2 – Does the institution have a Management Information System (MIS)?**

Yes

**6.2 – Strategy Development and Deployment****6.2.1 – Quality Improvement Strategies adopted by the Institution for each of The Following (with in 100 words each):**

Strategy Type	Details
Industry Interaction/ Collaboration	MoUs with industries and collaborative research with other institutes and industries has been initiated. Conferences and Workshops in collaboration with industries are being organized. The University also offers consultancy services to industries. Guest lectures, value added programs, modular courses, internships, projects and training programs are also being held.
Library, ICT and Physical Infrastructure/ Instrumentation	<p><b>Library:</b> The University Library has a fully air conditioned reading hall for the students which is open 24 hours throughout year. Regular alerts are sent to the faculty members and research scholars regarding latest arrivals of books e- journals, new Additions and free trial access from different publishers. Every year an exhibition of Manuscripts, Rare books, Rare Documents and photographs is also organized.</p> <p><b>ICT Web Site:</b> The University Library has its own web page and the address is <a href="http://library.gndu.ac.in">http://library.gndu.ac.in</a>. This website can also be accessed from the Guru Nanak Dev University <a href="http://www.gndu.ac.in">www.gndu.ac.in</a> under the option “Centre/ Facilities”.</p> <p><b>Web OPAC:</b> Web OPAC is available at: <a href="http://library.gndu.ac.in">http://library.gndu.ac.in</a>. Access to the books, Ph.D. thesis and Manuscripts is available on this site. The Library has prepared databases of books in English, Hindi and Punjabi Languages. The database is continuously updated when new purchase is done. The library has four Terminals for the readers to use OPAC for their search of books on its first and second Floor. In addition, this facility is also available via Internet within University Campus to benefit the students/ faculty members by giving access to</p>



	<p>catalogue in their respective departments. CDs of M.Phil. Dissertations and Ph.D. thesis, CDs of books, census reports, and gazette are available in this section. Students, researchers and faculty members can have access to these CDs, e-journals and databases in this section. The University Library is a member of DELNET (Developing Library Network, New Delhi). It helps the faculty members and researchers to procure those books, articles and documents from other educational institutions which are not available in our University Library. The Library is also member of INFLIBNET which is providing 15000 e-Journals. The Library has also an established Electronic Thesis and Dissertations Lab (ETD Lab) which has uploaded more than 900 Ph.D thesis on Shodhganga.</p> <p><b>Physical Infrastructure /instrumentation:</b> Bhai Gurdas Library has an area of (1, 50,000 sq. ft. 36800 sq. ft.) Area and seating capacity of (500 300).</p>
Curriculum Development	<p>The University adopts a systematic approach for the design and development of curriculum by various bodies i.e. Board of Control (B.O.C)/Board of Studies (B.O.S), Faculty meetings and in Academic Council. Various Expert Committees are also constituted for the design of new courses. Inputs are also taken from various National Curricular Resources like UGC, AICTE, DST,DBT etc.</p>
Teaching and Learning	<p>Smart learning has been initiated with the use of smart classrooms. Further, online databases for books in various languages are available in the library. The library also subscribes to various e-journals and e-books and is a member of DELNET (Developing Library Network, New Delhi) which helps the faculty members and researchers to procure those books, articles and documents from other educational institutions which are not available in our University Library.</p>
Examination and Evaluation	<p>Online application launched to keep track of evaluation in different centers. Conferencing facility has been set up in all Evaluation centres for monitoring and surveillance in addition to following: a) Timely opening and closing of evolution Centres is ensured in various cities. b) SMS facility launched to facilitate teachers from different colleges to obtain information Regarding assigned duty. c) Problem solving process has been improved. Guidelines are issued regularly by Controller Office and routine meetings are held through video conferencing between Professor In Charge (Examinations) and principals, coordinators of centres and superintendents of various evaluation centres to bring more efficiency. Roll numbers and results of the examination can be downloaded by the student from the University's website.</p>





Research and Development	<p>The University has a Research Committee responsible for the promotion and development of research. The composition of the committee is as follows:</p> <p>i. Vice-Chancellor (Chairman) ii. Dean, Academic Affairs iii. Director Research iv. Dean, Faculty of Life Sciences v. Dean, Faculty of Sciences vi. Dean, Faculty of Arts Social Sciences vii. Dean, Faculty of Languages</p> <p>The University encourages research by facilitating the implementation of Research Schemes/Projects in a positive and pro-active manner. Interdepartmental research collaborations are also promoted. The University has a strong culture of inviting eminent researchers to enable interaction with their researchers. The University has facilitated the formation of Project Board to help Research and Development.</p>
Human Resource Management	<p>The University has an institutionalized process of managing human resources. Teachers are encouraged to academically recharge and rejuvenate through participation in orientation courses, refresher courses, workshops, seminars and conferences. As and when Required, teachers are given appropriate leave such as study leave, duty leave, sabbatical leave, special casual leave for various academic purposes. There is also a provision in the calendar of the University that under certain circumstances the teachers can transform their medical leave into academic leave. The University has also a provision to give travel grants to Teachers so as to enable them to attend national and international seminars/conferences.</p>
Admission of Students	<p>For admission in the various courses offered by the University, admission notices are published in both regional and national newspapers. The University Prospectus is made available on the website of the University with comprehensive information regarding the criteria of admission to various courses, number of seats, dates of filling the admission forms and the deadline for depositing the admission fee. All applications for admission along with admission fee are submitted online.</p>

6.2.2 – Implementation of e-Governance in Areas of Operations	
	Details
Student Admission and Support	<p>The admission process to various courses is being conducted online and the results for the various entrance exams held for the same are also displayed on the University's website. The students can also apply for the on campus hostel accommodation online. The academic as well as hostel fees can be paid online through various modes. DMCs of students are available on the University's website. The students can also file their grievances or apply for transcript through the University's</p>



	website.
Examination	Roll numbers are issued to the students through online mode. The private students are also intimated about their examinations through this mode. Results for the various courses are posted on the University's website.
Administration	A File Tracking System (FTS) is being used by the University to track the status of various files. Also the process of stock entries and purchase has been made online. A separate portal for employee data has been developed in house and the employees can get information from the same. Various administrative decisions are being disseminated through emails.
Planning and Development	The University has a Research Committee responsible for the promotion and development of research. The composition of the committee is as follows: i. Vice-Chancellor (Chairman) ii. Dean, Academic Affairs iii. Director Research iv. Dean, Faculty of Life Sciences v. Dean, Faculty of Sciences vi. Dean, Faculty of Arts Social Sciences vii. Dean, Faculty of Languages. The University encourages research by facilitating the implementation of various Research Schemes/Projects in a positive and pro-active manner. Inter-departmental research collaborations are also promoted. The University has a strong culture of inviting eminent researchers to enable interaction with their researchers. The University has facilitated the formation of Project Board to help Research Development.

### 6.3 – Faculty Empowerment Strategies

#### 6.3.1 – Teachers Provided with Financial Support to Attend Conferences/ Workshops and Towards Membership Fee of Professional Bodies during the Year

Year	Name of Teacher	Name of Conference/ Workshop Attended for Which Financial Support Provided	Name of the Professional Body for which Membership Fee is Provided	Amount of Support
Refer Annexure - XXXVI				

#### 6.3.2 – Number of Professional Development/ Administrative Training Programmes Organized by the University for Teaching and Non-Teaching Staff during the Year

Year	Title of the Professional Development Programme Organized for Teaching Staff	Title of the Administrative Training Programme Organized for Non-teaching Staff	From Date	To Date	Number of Participants (Teaching Staff)	Number of Participants (Non-teaching Staff)
Refer Annexure - XXXVII						

#### 6.3.3 – No. of Teachers Attending Professional Development Programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the Year

Title of the Professional Development Programme	Number of Teachers who Attended	From Date	To Date	Duration
Refer Annexure - XXXVIII				



<b>6.3.4 – Faculty and Staff Recruitment (no. for permanent recruitment)</b>			
Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
295	503	1004	1004

<b>6.3.5 – Welfare Schemes for</b>		
Teaching	Non-teaching	Students
<p>The University has initiated various welfare schemes, like the group insurance scheme under which a very small amount of money is deducted from the salary, but at the time of illness of the employee lump sum money is given to him/her. The University's Medical Committee periodically diagnoses the employees who suffer from chronic illnesses such as diabetes, hypertension, etc. and provide reimbursement of their expenses on medicines. In addition, provision of various kinds of loans exists in the University for example, house construction loan, loan for purchase of vehicle, and class IV employees are given loan to buy food grains after Rabi crops are harvested. The University also provides an interest free loan from the Provident Fund of the concerned employee in cases of emergencies.</p>	<p>The University has initiated various welfare schemes, like the group insurance scheme under which a very small amount of money is deducted from the salary, but at the time of illness of the employee lump sum money is given to him/her. The University's Medical Committee periodically diagnoses the employees who suffer from chronic illnesses such as diabetes, hypertension, etc. and provide reimbursement of their expenses on medicines. In addition, provision of various kinds of loans exists in the University for example, house construction loan, loan for purchase of vehicle, and class IV employees are given loan to buy food grains after Rabi crops are harvested. The University also provides an interest free loan from the Provident Fund of the concerned employee in cases of emergencies.</p>	<p>In the office of the Director, Youth Welfare regular cultural programmes are organized on campus and Director Youth welfare looks after the cultural activities in coordination with the office of Dean Students' Welfare. • An Inter departmental cultural festival Jashan is organized every year. The University boasts of the availability of the best sports facilities for the students. Twenty four hours services of Health Centre are available to the students for any medical issues. • Various types of Scholarships are also offered to the University students: Grant of Full Fee/Half Fee Concession, Grant of Facilities to physically handicapped students, Sports incentives, Employee ward Concession, Brother-Sister Concession, Riots affected/terrorist affected Concession, Full Fee and Funds Concession to very poor students, Fee Concession to Children of Gallantry Award Winner and Poor Aid Fund.</p>

**6.4 – Financial Management and Resource Mobilization****6.4.1 – Institution Conducts Internal and External Financial Audits Regularly (with in 100 words each)**

Yes! Accounts of the University were audited by the Local Audit Department, Government of Punjab. External Audit/ Post Audit of accounts is also carried out by the CAG Punjab and New Delhi from time to time.

**6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)**

Name of The Non-government Funding Agencies /Individuals	Funds/ Grants Received in Rs.	Purpose
Nil	0	Nil

**6.4.3 – Total Corpus Fund Generated**

0

**6.5 – Internal Quality Assurance System****6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?**

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	NAAC	Yes	Internal Authority
Administrative	Yes	NAAC	Yes	Internal Authority

**6.5.2 – What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable)**

In order to promote autonomy to affiliated /constituent colleges, appropriate support and encouragement is provided both at the academic as well as administrative end. The University interacts with the affiliated colleges through the mediation of the College Development Council which is headed by the Dean. Meetings of the Council are held periodically. The University remains in constant touch with its affiliated colleges and informs and encourages them to apply for various grants. For the development of the curriculum for these colleges, the participation of the college faculty is ensured. The University has been encouraging the colleges to apply for the autonomous status.

**6.5.3 – Activities and Support from the Parent – Teacher Association (at least three)**

- Parents are routinely informed regarding their wards about their attendance in each course they are taking up.
- They are also requested to visit the University as and when the need arises regarding the conduct of their wards.
- The parents visiting the department are fully entertained for the enquiries about the performance and conduct of their ward.

**6.5.4 – Development Programmes for Support Staff (at least three)**

- Training programme regarding online working.
- In-house training courses for computer application.
- Short term course for non-teaching employees organized by the Human Resource Development Centre of the University.

**6.5.5 – Post Accreditation Initiative(s) (mention at least three)**

- New courses are developed dependent on needs regularly.
- The nomenclature of courses on the degree certificates is in conformity with the UGC guidelines.
- System developed for collecting and analyzing the Student Feedback system through online mode.
- Industry/Employers/Alumni are made part of the Board of Control to obtain feedback regarding improvement of curriculum.
- Need based system for remedial classes are being offered.
- Provisions for lifts, ramps and restrooms have been made available for differently-abled students and staff.
- Modern methods of teaching and learning like smart classes have been initiated.
- Collaborations with various Industries and academic institutes worldwide have been facilitated and MoUs signed.
- Teaching laboratories for the PG students have been upgraded.
- ICT facilities all over the campus have been improved.
- The IQAC team meets regularly and documents and records its activities systematically.

**6.5.6 – Internal Quality Assurance System Details**

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	Yes
d) NBA or any other quality audit	Yes

**6.5.7 – Number of Quality Initiatives undertaken during the year**

Year	Name of Quality Initiative by IQAC	Date of Conducting IQAC	Duration From	Duration To	Number of Participants
2018	Workshop on Revised Accreditation Framework (RAF)	12/10/2018	12/10/2018	12/10/2018	270

**CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES****7.1 – Institutional Values and Social Responsibilities****7.1.1 – Gender Equity (number of gender equity promotion programmes organized by the institution during the year)**

Title of the Programme	Period From	Period To	Number of Participants	
			Female	Male
Short Term Course on Gender Sensitization	05/02/2019	11/02/2019	18	7

**7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:**

Percentage of power requirement of the University met by the renewable energy sources

The University has initiative installation of rooftop solar energy plant of 3 Mega Watt Capacity under Government of India's Jawaharlal Nehru National Solar Mission (JNNSM). Out of this University will be able to utilize 1.4 Mega Watt of solar energy out of its 3 Mega Watt sanctioned load. Hence, the percentage of power requirements of the University met by the Renewable energy resource comes out to 49.3% which is the maximum the University can use.

**7.1.3 – Differently Abled (Divyangjan) Friendliness**

Item Facilities	Yes/No	Number of Beneficiaries
Provision for lift	Yes	23
Ramp/Rails	Yes	23

**7.1.4 – Inclusion and Situatedness**

Year	Number of Initiatives to Address Locational Advantages and Disadvantages	Number of Initiatives Taken to Engage with and Contribute to Local Community	Date	Duration	Name of Initiative	Issues Addressed	Number of Participating Students and Staff
Refer Annexure - XXXIX							

**7.1.5 – Human Values and Professional Ethics Code of Conduct (handbooks) for Various Stakeholders**

Title	Date of Publication	Follow up (max 100 words)
Human Values and Professional Ethics	31/07/2018	The University is following the Human Values and Code of Ethics since its establishment. They present the duties, functions and responsibilities of the administrative authorities, administrative staff, teachers and student of the University, its regional campuses and constituent colleges. Human Values and Code of Ethics are executed in the University to maintain efficiency, inclusivity, discipline, harmony and compassion in its administrative and academic environs. The effort is to produce quality research and students that benefit the whole society for its welfare.

**7.1.6 – Activities Conducted for Promotion of Universal Values and Ethics**

Activity	Duration From	Duration To	Number of Participants
Refer Annexure - XL			

**7.1.7 – Initiatives taken by the Institution to make the Campus Eco-friendly (at least five)**

1. Zero Waste Campus: The University has developed its system to manage solid waste by extracting the reusable article from the solid waste. Almost 40 of such reusable article go back to the Industry for producing recycle products.
2. Steps to make GNDU a vehicle free University have been initiated. With this, the entry of four wheelers has been banned on campus. Boom Barriers at various entry points to the University have been installed to regulate traffic and two new parking lots have been constructed at both entry gates for the convenience of students and visitors where parking can be done at very nominal parking rates. An agreement has been signed with Hero Group wherein they have started providing bicycles at very nominal charges (including maintenance cost) for use within campus.
3. Plantation Drive: GNDU organizes a plantation drive throughout the academic year. Students are encouraged to plant at least one plant and nurture it for 6 months under the guidance of Consultant Horticulture and Head, Botanical Sciences. A group of students volunteer have taken initiative for the same.
4. The agriculture waste of the University such as tree leaves are converted into manure through organic process.
5. Ban on single-use plastics.
6. To promote awareness about eco-friendliness flower plants show and seminar are organized.

**7.2 – Best Practices****7.2.1 – Describe at least two Institutional Best Practices**

Department of Pharmaceutical Sciences: The aim of this department is to provide students with hands-on training for conducting quality control tests for pharmaceuticals and herbal products. This will empower students for being employed by industry and also encourages innovation. The students are imparted training in techniques such as HPLC, UHPLC, NMR, LC-MS, SEM, TEM, spray drying size, zeta potential, rheology, confocal, amino acid analyzer, animal handling and experimentation which are routinely used in quality control in various industries. The curricula are designed in such a way so that each and every theoretical aspect of the instruments are explained properly and students are properly trained following the standard operating procedures as well as proper regulatory guidelines. For the testing of raw materials and finished products, pharmacopoeial guidelines are followed. The practice is unique in higher education because there is a great demand for pharmaceutical products which is gradually increasing worldwide with the population.

Department of Placement Services: Guru Nanak Dev University also follows a curriculum embedded soft-skills program to improve the job prospects of the students. By means of various lectures, students are made aware of the work-life balance, intricacies of corporate life and several other aspects which help them provide a better interface to move from academic life to corporate life. On-campus job placement services provide excellent opportunities for fresh graduates.

**Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link**

<http://online.gndu.ac.in/>



### 7.3 – Institutional Distinctiveness

#### 7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

GNDU initiated the University-Industry Linkage Program that is in fact a source of educational upheaval, inspiration, and establishment of industrial linkages between the industries and Guru Nanak Dev University(GNDU). Industries of all kinds including oil and gas, refineries, pharmaceuticals, telecommunications, defense production, textiles, bioremediations, heavy mechanical industries, and renewable and cleaner energy, etc. are the backbone for boosting the economic growth of a country. UILP plays a pivotal role in establishing industrial linkages with universities. GNDU is pursuing the noble mission of imparting quality education in a value-adding environment that grooms students to become responsible citizens of society. We at GNDU are progressively working to build sound traditions of research and teaching on all our academic programs. We offer diversified and well-thought-out programs of study supported with elaborate state of the art facilities. The University-Industry Linkage Programme (UILP) has been established to operate as a catalyst towards engaging with the industry order to address the needs of both the industry and the university. UILP is the gateway for the industry and university to seek new opportunities to complement each other and to develop talents suitable for current industry needs. UILP opens the door for industries to link with GNDU by way of offering industrial training, internships, and hiring opportunities. Industries can share and contribute their expertise in developing human capital by partnering with the university through programs that help nurture and prepare students to make them relevant to the industries.

#### Provide the web link of the institution

<http://online.gndu.ac.in>

### 8.Future Plans of Actions for Next Academic Year

The University strives to introduce new courses having high employability potential in diversified areas of Life Sciences, Sciences, Professionals, Engineering Technology and Humanity discipline also. The University is taking initiative to make maximum utilization of e-resources in its Administrative, Academic and Evaluation Processes. Smart classroom and e-learning resources will be introduced to attain high quality research and development along with quality of education. Practices and augmentation of state of arts, sports, cultural and other curriculum facilities are an important agenda of the University for overall personality development of student of the University.



# *Annexures*

**Annexure-I****List of Special Status Conferred by Central/State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc. for 2018-19**

S.No.	Institution/Department/Faculty	Scheme	Funding	Year of Award	duration in Days	Amount Sanctioned (in Rupees)
1	Food Science & Technology	FIST Program	DST	2019	1825	2,16,00,000
2	Botanical & Environmental Science	FIST Program	DST	2017	1825	90,00,000
3	Chemistry	FIST Program	DST	2017	1825	2,95,00,000
4	Pharmaceutical Science	FIST Program	DST	2017	1825	92,00,000
5	Sociology	SAP	UGC	2015	1825	83,00,000
6	Economics	SAP	UGC	2015	1825	90,50,000
7	Zoology	SAP	UGC	2016	1825	80,00,000
8	University Business School	SAP	UGC	2016	1825	33,75,000
9	School of Punjabi Studies	SAP	UGC	2015	1825	61,95,000
10	Botanical & Environmental Science	SAP	UGC	2015	1825	1,07,00,000
11	Physics	SAP	UGC	2015	1825	64,00,000
12	Director Sports	NSDF	MYAS	2019	Not Specified	1,00,00,000
13	Guru Granth Sahib Study Centre	Centre on Studies in Sri Guru Granth Sahib	UGC	2011	3650	4705,00,000
14	MYAS	NCSSR	MYAS	2017	1825	2500,00,000
15	Botanical & Environmental Science	Assistance to Botanical Garden	MEF&CC	2018	1095	71,80,000
16	Biotechnology	DISC	DBT	2016-20	1825	41,66,000
17	Education Department	SOE	Center Govt.	2018-19	1095	8,04,00,000
18	Faculty Development Centre	FDC	Center Govt.	2017-18	1095	3,51,00,000
19	National Resource Centre	NRC	AICTE	2018-19	365	14,70,000
20	National Resource Centre	NRC	Center Govt.	2018-19	365	5,00,000
21	UGC-HRDC	HRDC	UGC	2015-16	365	63,43,657
22	UGC-HRDC	HRDC	UGC	2016-17	365	0
23	UGC-HRDC	HRDC	UGC	2017-18	365	37,48,301
24	UGC-HRDC	HRDC	UGC	2018-19	365	37,32,286
25	UGC-HRDC	HRDC	UGC	2019-20	365	42,00,000



26	Biotechnology Department	DBT Supported M.Sc. BioTech Teaching Prog.	Centre Govt.	2019-20	365	31,50,243
27	Biotechnology Department	DBT Supported PG Teaching Prog. in BioTech.	Centre Govt.	2019-20	547	17,24,000
28	Chemistry Department	Equipment Grant for CAS-II	UGC	2016-17	1460	2,50,00,000
29	Chemistry Department	CAS-II	UGC	2015-16	365	10,00,000
30	Chemistry Department	CAS-II	UGC	2016-17	365	8,40,266
31	Chemistry Department	CAS-II	UGC	2017-18	365	8,59,059
32	Chemistry Department	CAS-II	UGC	2018-19	365	8,55,477
33	Chemistry Department	CAS-II	UGC	2019-20	365	4,39,045
34	Electronics Technology	VISVESVARYA	Ministry of Electronics	2016-17	1825	127,76,800
35	Science & Technology Department	DST PURSE	DST	2017-18	1460	1705,00,000.00
36	Director Sports (Synthetic Athletic Track)	KHELO INDIA	MYAS	2019-20	Not Specified	700,00,000.00
37	Construction of 200 Bedded Hostel (one for Men & one for Women)	KHELO INDIA	MYAS	2019-20	Not Specified	1120,00,000
38	Grant for Celebration of 550th Birth Anniversary of Sh. Guru Nanak Dev Ji	--	UGC	2019-20	Not Specified	4910,98,000
39	University with Potential for Excellence	UPE	UGC	2012	2920	3000,00,000
40	Quality and Excellence in Select State Universities	RUSA 2.0	MHRD & Punjab Govt.	2019	730	1000,00,000
41	Faculty Development Program	RUSA 2.0	MHRD & Punjab Govt.	2020	730	700,00,000

**Annexure-II****Composition of the IQAC (2018-19)**

The following Committee for Internal Quality Assurance Cell (IQAC) is proposed for the period of 01.04.2018 to 31.03.2019

Chairperson (Head of Institute)	Prof. (Dr.) Jaspal Singh Sandhu, (Vice Chancellor)
Administrative Officers	Prof. (Dr.) Kamaljit Singh, (Dean Academic Affairs)
	Prof. (Dr.) Karanjeet Singh Kahlon, (Registrar)
Faculty Members	Prof. (Dr.) Shweta Shenoy, MYAS GNDU Department of Sports Sciences and Medicine
	Prof. Sarbjot Singh Behl, Department of Architecture
	Prof. (Dr.) Preet Mohinder Singh Bedi, Department of Pharmaceutical Science
	Prof. (Dr.) Bikramjit Singh Bajwa, Department of Physics
	Prof. (Dr.) Hardeep Singh, Department of Computer Science
	Prof. (Dr.) Jatinder Singh, Department of Molecular Biology & Biochemistry
	Prof. (Dr.) Manoj Kumar, Department of Chemistry
	Prof. (Dr.) Paramjit Kaur, Department of Chemistry
Management Member	Prof. (Dr.) Gurpreet Bal, Department of Sociology (Syndicate Member)
Nominees from local Society/ Students/ Alumni	Dr. Inderjit Kaur, Chairperson, All India Pingalwara Society, Amritsar. (Nominee, Local Society)
	Ms. Palak Bakshi, Ph.D Scholar, Department of Botanical & Environmental Science
	Dr. Manwinder Singh, Joint Director, Irrigation & Power Research Institute, Amritsar (Nominee, Alumni)
Nominees from Employers /Industrialists/stakeholders	Prof. (Dr.) Narpinder Singh, Department of Food Science & Technology (Nominee, Employers)
	Mr. Amit Gupta, Vice President, TCS Consultancy, Gurugram (Nominee, Industrialists)
	Mr. Namit Juneja, Advocate, Amritsar (Nominees from Stakeholders/Parents)
Director IQAC (Member Secretary)	Prof. (Dr.) Renu Bhardwaj, Department of Botanical & Environment Sciences.
Assistant Directors (IQAC)	Dr. Swati Mehta, Assistant Professor, Punjab School of Economics
	Dr. Gagandeep Kaur Gahlay, Assistant Professor, Molecular Biology and Biochemistry



### Annexure-III

#### INTERNAL QUALITY ASSURANCE CELL (IQAC)

A meeting was held in the Office of worthy Vice Chancellor on 29<sup>th</sup> June, 2018 at 11:00 am. Following members were present:

1. Prof. (Dr.) Jaspal Singh Sandhu, (Vice Chancellor)
2. Prof. (Dr.) Kamaljit Singh, (Dean Academic Affairs)
3. Prof. (Dr.) Karanjeet Singh Kahlon, (Registrar)
4. Prof. (Dr.) Preet Mohinder Singh Bedi, Department of Pharmaceutical Science.
5. Prof. (Dr.) Bikramjit Singh Bajwa, Department of Physics.
6. Prof. (Dr.) Hardeep Singh, Department of Computer Science.
7. Prof. (Dr.) Paramjit Kaur, Department of Chemistry.
8. Prof. (Dr.) Shweta Shenoy, MYAS GNDU Department of Sports Sciences and Medicine.
9. Ms. Palak Bakshi, Ph.D Scholar, Department of Botanical & Environmental Science.
10. Mr. Namit Juneja, Advocate, Amritsar (Nominees from Stakeholders/Parents)
11. Prof. (Dr.) Renu Bhardwaj, (Director IQAC)
12. Dr. Swati Mehta.
13. Dr. Gagandeep Kaur Gahlay.

The following issues were discussed and approved:

1. The Dean Academic Affairs Prof. Kamaljit Singh welcomed the members of the newly constituted Advisory Committee of IQAC and briefed the objectives of the NAAC to create such centre in the Institute of higher learning. He also briefed historical background of this Centre in the University.
2. The Registrar, Prof Karanjeet Singh Kahlon initiated the introductory session of the Advisory Committee.
3. Director, IQAC Prof. Renu Bhardwaj briefed the activities executed by IQAC in the academic year (2017-18).
4. In the feedback session, members were of the opinion to introduce portals for collection of data from various sources (teaching and non-teaching) so as to ease out the data collection.
5. It was also decided that IQAC will act as the nodal centre for dissemination of the information sought by various agencies.
6. Director Placement, Prof. Hardeep Singh threw light on improving the placement of University students.



7. The members were of the opinion to develop more effective linkages of University with Industry.
8. In the Presidential address, worthy Vice Chancellor briefed about various initiatives being undertaken by the University for its Academic upliftment. He stressed upon strengthening the students-teacher bond and curricular and extracurricular activities. He also emphasized on feedback from students and other stakeholders, improving interaction with the alumni residing abroad and developing bond with the reputed and established alumni in improving placements of students. He was of the view of involving students in various industrial projects and improving outreach/perception of the University as it will be an improving indicator of NIRF assessment.

The meeting concluded with vote of thanks to the Chair by Prof. Renu Bhardwaj and the members applauded the Office of IQAC for timely submission of all the surveys/documents/reports to various agencies.

(Prof. Shweta Shenoy)

(Prof. Preet Mohinder Singh Bedi)

(Prof. Bikanjit Singh Bajwa)

(Prof. Hardeep Singh)

(Prof. Paramjit Kaur)

(Mr. Namit Juneja)

(Dr. Swati Mehta)

(Dr. G.K. Gahlay)

(Ms. Palak Bakshi)

(Prof. Renu Bhardwaj)  
Director (IQAC)  
Member Secretary

(Prof. K.S. Kahlon)  
Registrar

(Prof. Kamaljit Singh)  
Dean (Academic Affairs)

(Prof. Jaspal Singh Sandhu)  
Vice-Chancellor  
Chairperson, IQAC



## INTERNAL QUALITY ASSURANCE CELL (IQAC)

### Proceeding

A meeting was held in the Office of Worthy Vice Chancellor on **15<sup>th</sup> November 2018** at 11:00 am. Following members were present:

1. Prof. (Dr.) Jaspal Singh Sandhu, (Vice Chancellor)
2. Prof. (Dr.) Kamaljit Singh, (Dean Academic Affairs)
3. Prof. (Dr.) Karanjeet Singh Kahlon, (Registrar)
4. Prof. (Dr.) Shweta Shenoy, MYAS GNDU Department of Sports Sciences and Medicine
5. Prof. Sarbjot Singh Behl, Department of Architecture
6. Prof. (Dr.) Preet Mohinder Singh Bedi, Department of Pharmaceutical Science
7. Prof. (Dr.) Bikramjit Singh Bajwa, Department of Physics
8. Prof. (Dr.) Hardeep Singh, Department of Computer Science
9. Prof. (Dr.) Jatinder Singh, Department of Molecular Biology & Biochemistry
10. Prof. (Dr.) Paramjit Kaur, Department of Chemistry
11. Prof. (Dr.) Gurpreet Bal, Department of Sociology (Syndicate Member)
12. Dr. Manwinder Singh (Nominees from Alumni)
13. Ms. Palak Bakshi, Ph.D Scholar, Department of Botanical & Environmental Science
14. Prof. (Dr.) Renu Bhardwaj, Director IQAC
15. Dr. Gagandeep Kaur Gahlay Assistant Director IQAC

The following Achievements/Activities of IQAC were discuss and approved:

1. **SWACHH CAMPUS RANKING 2018 of Higher Educational Institutions:**  
The members were apprised of Swachh Campus Ranking 2018 of the University. Under Ranking of Higher Educational Institutions, the University got **2<sup>nd</sup> Rank at National level amongst the cleanest Higher Educational Institutions in the country** in the category 'Government Universities'.
2. **AQAR 2016-17 approved by Senate:**  
Annual Quality Assurance Report (AQAR) 2016-17 was placed in Senate meeting held on 31.07.2018. It was approved by Senate, vide letter no.4184/Syn/Sec dated 02.08.2018.
3. **IQAC rules/chapter approval:**  
IQAC rules were framed and placed in Syndicate. The Syndicate in its meeting held on 15.10.2018 adopted them to be included in the University Calendar vide letter no. 5072-73 dated 18.10.2018.
4. **Annual Report 2017 Compiled:**  
Annual Report 2017 is ready to be placed in coming senate meeting.
5. **NAAC sponsored workshop was organised:**  
NAAC workshop for Punjab region was organised on 12.10.2018. The Minister of Higher Education Punjab was Chief Guest and Prof V.S Chauhan, chairman NAAC was Guest of Honour. **255** Principals and IQAC Directors of the colleges from various colleges of the three Universities (GNDU, Pbi Uni. & PU) participated in the workshop.



**6. Report of NAAC workshop submitted:**

Report of the workshop was made and submitted to NAAC Office, New Delhi.

**7. QS University Ranking 2018:**

In QS University Ranking, University got 61-65 Rank in overall category in India and was placed in World University ranking 301-350 in BRICS Rankings, 351-400 Asian University Rankings. Ranking Criteria was Papers per Faculty (57.8) and Citations per Paper (88.5).

**8. Swachh Bharat Summer Internship 2018:**

University organised Swachh Bharat Summer Internship programme under Coordinatorship of Prof. Hardip Singh Gujral Programme Coordinator (NSS).

**9. Institution Innovation Council (ICC):**

Innovation club network as established by Institution Innovation Council (ICC) has been established in the university. Prof. Pratap Kumar Pati has been appointed as a Nodal Officer for Innovation Club.

**10. SAMBANDH Portal:**

Registration of University at SAMBANDH portal has been done. The overarching goal of this initiative is to connect the Universities and Colleges with the Society around them for mutually beneficial engagement and to establish a culture of University Social Responsibility. Data has been uploaded at this portal.

**11. Registration with MIS portal:**

The University has registered on MHRA-MIS (Management Information System) portal. Data was uploaded in portal relating to RUSA Project.

**12. Participation in NAAC Workshop (Bengaluru):**

Director IQAC participated in NAAC workshop on Revised Accredited framework at Bengaluru in October.

**13. AQAR 2017-18 ready for submission:**

AQAR 2017-18 has been prepared and ready for submission to NAAC Office.

**14. SICI Membership Application:**

The information regarding membership with the Shastri Indo-Canadian Institute, New Delhi was filled in the application form. The form was sent to Dr. Preet Mohinder Singh Bedi, Coordinator (ULIP) for onward submission to Shastri Institute, New Delhi.

**15. Information under SU-Bureau UGC:**

Information regarding courses offered in various Indian Languages by Indian Higher Education Institutions was provided to Registrar Office for onward submission to UGC.

**16. Information regarding University Regional Centres:**

Information regarding University Regional Centres as required by Higher Education Department, Government of Punjab was complied and submitted to Registrar Office for onward submission to Office of Government of Punjab.

**17. Information desired by Director NAAC on NAAC/ NON- NAAC Accredited Institutions affiliated to University:**

Complete information regarding NAAC Accredited colleges of the University was sent to NAAC Office.



**18. MHRD, National Institute Ranking Framework (NIRF) 2019:**

The University got registered to MHRD, National Institute Ranking Framework (NIRF) 2019. Data uploading is in progress.

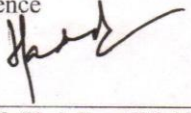

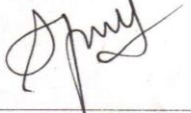
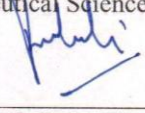
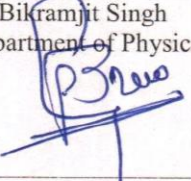
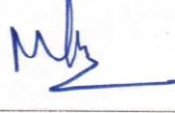
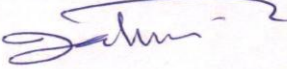
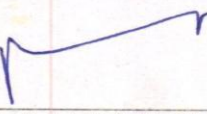

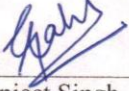
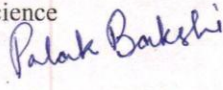
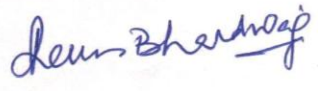
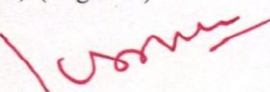
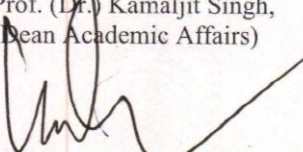

**19. Atal Ranking of Institutions on Innovation Achievements (ARIIA) 2019**

The University got registered to Atal Ranking of Institutions on Innovation Achievements (ARIIA) launched by MHRD to foster culture of innovation in Higher Education Institutions, which will rank educational institutions as per their innovation output based on global parameters.

**20. Correction/revision in the nomenclature of Budgetary Post.**

As per the approval of Finance Committee meeting held on 25.11.2014 and Syndicate meeting held on 26.12.2014 a post of 'Data Entry Operator' was approved under sanction letter no. A- 11/2015/349-55/A dated 08.01.2015 in the Office of IQAC. Request was to make change in the nomenclature of the post from '**Data Entry Operator**' (DEO) to **Clerk-cum-Junior Data Entry Operator (CCJDEO)**.

The meeting concluded with vote of thanks to the Chair by Prof. Gurpreet Bal and the members applauded the Office of IQAC for timely submission of all the surveys/documents/reports to various agencies.

Prof. (Dr.) Hardeep Singh, Department of Computer Science 	Prof. (Dr.) Shweta Shenoy, MYAS GNDU Department of Sports Sciences and Medicine 	Prof. Sarbjot Singh Behl, Department of Architecture 
Prof. (Dr.) Preet Mohinder Singh Bedi, Department of Pharmaceutical Science 	Prof. (Dr.) Bikramjit Singh Bajwa, Department of Physics 	Dr. Manwinder Singh (Nominees from Alumni) 
Prof. (Dr.) Jatinder Singh, Department of Molecular Biology & Biochemistry 	Prof. (Dr.) Paramjit Kaur, Department of Chemistry 	Prof. (Dr.) Gurpreet Bal, Department of Sociology (Syndicate Member) 
Dr. Gagandeep Kaur Gahlay Department of Molecular Biology & Biochemistry 	Ms. Palak Bakshi, Ph.D Scholar, Department of Botanical & Environmental Science 	Prof. (Dr.) Renu Bhardwaj, Director IQAC 
Prof. (Dr.) Karanjeet Singh Kahlon, (Registrar) 	Prof. (Dr.) Kamaljit Singh, (Dean Academic Affairs) 	Prof. (Dr.) Jaspal Singh Sandhu, (Vice Chancellor) 



#### Annexure-IV

<i>Plan of Action</i>	<i>Achievements</i>
a) Documentation of Various Activities	a) Compiled 49 <sup>th</sup> Annual Report -2018 of the University.
b) To participate in Survey for University Ranking at the National Level.	b) Acted as a Nodal Agency for participating in various surveys like National Institutional Ranking Framework (NIRF), The Week , ACU Measures–The Association of Commonwealth Universities.
c) Preparation of self-reviewed AQAR: 2018-2020.	c) Compiled AQAR 2018-2019 of the University.
d) Monitoring of Teaching & Learning Processes.	d) Continued the practice of taking Faculty Evaluation Feedback from the students.
e) To Work on the Recommendations of NAAC Peer Team.	e) Effective implementation of the NAAC Committee recommendations is under process.



## Annexure-V

## Programme for which Syllabus Revision was Carried out During Academic Year 2018-19

Sr. No.	Name of the Programme	Programme Code	Programme Specialization	Date of Revision
1	BSc (HS) (Chemistry)	CYL	Chemistry	Before 2018
2	BTech	CYL	Textile Processing Technology	Before 2018
3	MSc	CYL	Applied Chemistry (Pharma)	Before 2018
4	MSc (HS) (Chemistry)	CYL	Chemistry	Before 2018
5	MSc (Chemistry)	CYL	Chemistry	Before 2018
6	BSc (HS) (Physics)	PHL	Physics	Before 2018
7	MSc (HS) (Physics)	PHL	Physics	Before 2018
8	MSc (Physics)	PHL	Physics	Before 2018
9	BSc (HS) Mathematics	MTL	Mathematics	Before 2018
10	MSc Mathematics	MTL	Mathematics	Before 2018
11	BTech (4 years)	FTL	Food Technology	Before 2018
12	MSc Food Technology	FTL	Food Technology	Before 2018
13	BSc (HS) (Botany)	BSL	Botany	Before 2018
14	MSc Botany	BSL	Botany	Before 2018
15	MSc Environmental Sciences	BSL	Environmental Sciences	Before 2018
16	BSc Medical Lab Technology	MBL	Medical Lab Technology	Before 2018
17	MSc Molecular Biology & Biochemistry	MBL	Molecular Biology & Biochemistry	Before 2018
18	MSc (HS) Zoology (FYIC)	ZOL	Zoology	Before 2018
19	MSc Zoology	ZOL	Zoology	Before 2018
20	MSc Microbiology	MCL	Microbiology	Before 2018
21	MSc Biotechnology	BTL	Biotechnology	Before 2018
22	BSc (HS) Human Genetics	HGL	Human Genetics	Before 2018
23	MSc Human Genetics	HGL	Human Genetics	Before 2018
24	MSc (HS) Human Genetics	HGL	Human Genetics	Before 2018
25	BPharma	PHL	Pharmacy	Before 2018
26	MPharma	PHL	Pharmacy	Before 2018
27	MA Political Science	POL	Political Science	Before 2018
28	MA History	HIL	History	Before 2018
29	MA Sociology	SOL	Sociology	Before 2018
30	Bachelor of Library & Information Science(Hons)	LIB	Library & Information Science	Before 2018
31	Master of Library & Information Science	LIB	Library & Information Science	Before 2018
32	MA Psychology	PYL	Psychology	Before 2018
33	BA (HS) in Social Sciences	SSL	Social Sciences	Before 2018
34	BArch	ARL	Architecture	Before 2018
35	MArch	ARL	Urban Design	Before 2018
36	BTech	GBL	Urban and Regional Planning	Before 2018
37	MTech	GUL	Urban Planning	Before 2018
38	Bachelor of Planning	HPL	Urban and Regional Planning	Before 2018
39	Master of Planning	GIL	Urban Planning	Before 2018
40	Master of Planning	GIL	Infrastructure Planning	Before 2018
41	MPA Music (Vocal)	MUL	Music	Before 2018
42	MPA Music (Instrumental)	MUL	Music	Before 2018
43	MCA (Three Years Course)	CSL	Computer Applications	Before 2018
44	MCA (5 Years Integrated Course)	CSL	Computer Applications	Before 2018
45	BTech	CEL	Computer Engineering	Before 2018
46	BTech	CEL	Computer Science & Engineering	Before 2018
47	MTech	ECL	Computer Science & Engineering	Before 2018



48	BTech	ECL	Electronics & Communications Engineering	Before 2018
49	MTech	ECL	Electronics and Communications Engineering	Before 2018
50	Bachelor of Physiotherapy (BPT)	SPL	Physiotherapy	Before 2018
51	Masters in Physiotherapy (Orthopaedic)	SPL	Physiotherapy	Before 2018
52	MA Religious Studies	GNL	Religious Studies	Before 2018
53	MA Philosophy	GNL	Philosophy	Before 2018
54	MEd (Education)	EDL	Education	Before 2018
55	MA Education	EDL	Education	Before 2018
56	MA Sanskrit	SKS	Sanskrit	Before 2018
57	BA (Hons. School) Punjabi	PBL	Punjabi	Before 2018
58	MA Punjabi	PBL	Punjabi	Before 2018
59	MA English	ENG	English	Before 2018
60	MA Hindi	HIN	Hindi	Before 2018
61	MA Business Economics	EDL	Business Economics	Before 2018
62	BSc (Hons. School) Economics	EDL	Economics	Before 2018
63	MSc (Hons. School) Economics	EDL	Economics	Before 2018
64	MCom (FYIC)	MGL	Commerce	Before 2018
65	BCom (HS)	MGL	Commerce	Before 2018
66	MBA	MGL	Finance	Before 2018
67	MCom	MGL	Commerce	Before 2018
68	MBA (FYIC)	MGL	Business Administration	Before 2018
69	MBA	MGL	Business Administration	Before 2018
70	MBA	MGL	Marketing Management	Before 2018
71	MBA	MGL	Financial Analysis	Before 2018
72	MBA	MGL	Human Resource Development	Before 2018
73	MBA	MIL	Hospital Administration	Before 2018
74	BA LLB (FYIC)	MIL	Law	Before 2018
75	LLM (One Year Course)	LAW	Law	Before 2018
76	LLB (TYC)	LAW	Law	Before 2018
77	BPED	PHE	Physical Education	Before 2018
78	BPES	PHE	Physical Education and Sports	Before 2018
79	MPED	PHE	Physical Education	Before 2018
80	Master in Hospital Administration	SPL	Hospital Administration	Before 2018
81	MPT	SPL	Sports Physiotherapy	Before 2018
82	MSc	SPL	Sports Nutrition	Before 2018
83	MSc	SPL	Exercise & Sports Psychology	Before 2018
84	MA	SPL	Sports Psychology	Before 2018
85	Bachelor of Tourism and Travel Management	MIL	Tourism and Hospitality	Before 2018
86	Bachelor of Hotel Management and Catering Technology	MIL	Tourism and Hospitality	Before 2018
87	MArch	ARL	Sustainable Built Environment	Before 2018
88	BTech	MEL	Mechanical Engineering	Before 2018
89	BTech	CYL	Civil Engineering	Before 2018

**Annexure-VI****Programmes/ Courses Focussed on Employability/ Entrepreneurship/ Skill Development  
During the Academic Year (2018-19)**

<b>Sr. No</b>	<b>Name of the Programme</b>	<b>Programme Specialization</b>	<b>Date of Introduction</b>	<b>Course Code</b>	<b>Date of Introduction</b>
1	BArch	Architecture	01.07.2010	ARL	01.07.2010
2	MArch	Urban Design	01.07.2010	ARL	01.07.2010
3	MSc	Applied Chemistry (Pharma)	01.07.2010	CYL	01.07.2010
4	BTech	Textile Processing Technology	01.07.2010	CYL	01.07.2010
5	BSc (HS) (Chemistry)	Chemistry	01.07.2010	CYL	01.07.2010
6	MSc (HS) (Chemistry)	Chemistry	01.07.2010	CYL	01.07.2010
7	MSc (Chemistry)	Chemistry	01.07.2010	CYL	01.07.2010
8	BTech	Computer Engineering	01.07.2010	CEL	01.07.2010
9	BTech	Computer Science and Engineering	01.07.2010	CEL	01.07.2010
10	MTech	Computer Science and Engineering	01.07.2010	CEL	01.07.2010
11	MCA	Computer Applications	01.07.2010	CSL	01.07.2010
12	MCA (FYIC)	Computer Applications	01.07.2010	CSL	01.07.2010
13	MSc (Biotechnology)	Biotechnology	01.07.2010	BTL	01.07.2010
14	BSc (HS)(Botany)	Botany	01.07.2010	BSL	01.07.2010
15	MSc (Botany)	Botany	01.07.2010	BSL	01.07.2010
16	MSc Environmental Sciences	Environmental Sciences	01.07.2010	BSL	01.07.2010
17	BSc (HS) (Human Genetics)	Human Genetics	01.07.2010	HGL	01.07.2010
18	MSc (Human Genetics)	Human Genetics	01.07.2010	HGL	01.07.2010
19	MSc (HS) (Human Genetics )	Human Genetics	01.07.2010	HGL	01.07.2010
20	MSc (Microbiology)	Microbiology	01.07.2010	MCL	01.07.2010
21	MEd (Education)	Education	01.07.2010	EDL	01.07.2010
22	MA (Education)	Education	01.07.2010	EDL	01.07.2010
23	BTech (ECE)	Electronics and Communications Engineering	01.07.2010	ECL	01.07.2010
24	MTech (ECE)	Electronics and Communications Engineering	01.07.2010	ECL	01.07.2010
25	MA (English)	English	01.07.2010	ENG	01.07.2010
26	BTech	Food Science & Technology	01.07.2010	FTL	01.07.2010
27	MSc (Food Technology )	Food Science & Technology	01.07.2010	FTL	01.07.2010
28	MA (Philosophy)	Philosophy	01.07.2010	GNL	01.07.2010
29	MA (Religious Studies)	Religious Studies	01.07.2010	GNL	01.07.2010
30	Bachelor of Planning	Urban and Regional Planning	01.07.2010	HPL	01.07.2010
31	BTech	Urban and Regional Planning	01.07.2010	GBL	01.07.2010





32	Master of Planning	Urban Planning	01.07.2010	GIL	01.07.2010
33	Master of Planning	Infrastructure Planning	01.07.2010	GIL	01.07.2010
34	MTech	Urban Planning	01.07.2010	GUL	01.07.2010
35	MA (Hindi)	Hindi	01.07.2010	HIN	01.07.2010
36	MA (History)	History	01.07.2010	HIL	01.07.2010
37	LLB (TYC)	Law	01.07.2010	LAW	01.07.2010
38	BA LLB (FYIC)	Law	01.07.2010	LAW	01.07.2010
39	LLM	Law	01.07.2010	LAW	01.07.2010
40	BLib & Information Science	Library & Information Science	01.07.2010	LIB	01.07.2010
41	MLib & Information Science	Library & Information Science	01.07.2010	LIB	01.07.2010
42	BSc (HS) (Mathematics)	Mathematics	01.07.2010	MTL	01.07.2010
43	MSc (Mathematics)	Mathematics	01.07.2010	MTL	01.07.2010
44	BSc (Medical Lab. Technology)	Medical Lab. Technology	01.07.2010	MBL	01.07.2010
45	MSc (Molecular Biology & Biochemistry)	Molecular Biology & Biochemistry	01.07.2010	MBL	01.07.2010
46	MPA (Vocal)	Music	01.07.2010	MUL	01.07.2010
47	MPA (Instrumental)	Music	01.07.2010	MUL	01.07.2010
48	BPharm	Pharmacy	01.07.2010	PHL	01.07.2010
49	MPharm	Pharmacy	01.07.2010	PHL	01.07.2010
50	BPES	Physical Education and Sports	01.07.2010	PHE	01.07.2010
51	BPEd	Physical Education	01.07.2010	PHE	01.07.2010
52	MPed	Physical Education	01.07.2010	PHE	01.07.2010
53	BSc (HS) (Physics)	Physics	01.07.2010	PHL	01.07.2010
54	MSc (HS) (Physics)	Physics	01.07.2010	PHL	01.07.2010
55	MSc (Physics)	Physics	01.07.2010	PHL	01.07.2010
56	BPT	Physiotherapy	01.07.2010	SPL	01.07.2010
57	MPT	Orthopaedic	01.07.2010	SPL	01.07.2010
58	MA (Political Science)	Political science	01.07.2010	POL	01.07.2010
59	MA (Psychology)	Psychology	01.07.2010	PYL	01.07.2010
60	BSc (HS) (Economics)	Economics	01.07.2010	EDL	01.07.2010
61	MSc (HS) (Economics)	Economics	01.07.2010	EDL	01.07.2010
62	MA	Business Economics	01.07.2010	EDL	01.07.2010
63	MA (Sanskrit)	Sanskrit	01.07.2010	SKS	01.07.2010
64	BA (HS) (Punjabi)	Punjabi	01.07.2010	PBL	01.07.2010
65	MA (Punjabi)	Punjabi	01.07.2010	PBL	01.07.2010
66	BA (HS) (Social Sciences)	Social Sciences	01.07.2010	SSL	01.07.2010
67	MA (Sociology)	Sociology	01.07.2010	SOL	01.07.2010
68	MBA	Financial Analysis	01.07.2010	MGL	01.07.2010
69	MBA	Marketing Management	01.07.2011	MGL	01.07.2011
70	MBA	Business Administration	01.07.2012	MGL	01.07.2012
71	MBA	Hospital Administration	01.07.2010	MGL	01.07.2010
72	MBA	Human Resource Development	01.07.2010	MGL	01.07.2010
73	MBA (FYIC)	Business Administration	01.07.2010	MGL	01.07.2010
74	BCom (HS)	Commerce	01.07.2010	MGL	01.07.2010



75	MCom	Commerce	01.07.2010	MGL	01.07.2010
76	MBA	Finance	01.07.2010	MGL	01.07.2010
77	MCom (FYIC)	Commerce	01.07.2010	MGL	01.07.2010
78	MSc (HS) (Zoology) (FYIC)	Zoology	01.07.2010	ZOL	01.07.2010
79	MSc (Zoology)	Zoology	01.07.2010	ZOL	01.07.2010
80	Master in Hospital Administration	Hospital Administration	01.12.2018	SPL	01.12.2018
81	MPT	Sports Physiotherapy	01.12.2018	SPL	01.12.2018
82	MSc	Sports & Nutrition	01.12.2018	SPL	01.12.2018
83	MSc	Exercise & Sports Psychology	01.12.2018	SPL	01.12.2018
84	MA	Sports Psychology	01.12.2018	SPL	01.12.2018
85	Bachelor of Tourism & Travel Management	Tourism and Hospitality	01.07.2017	MIL	01.07.2017
86	Bachelor of Hotel Management and Catering Technology	Tourism and Hospitality	01.07.2017	MIL	01.07.2017
87	MArch	Sustainable Built Environment	01.07.2010	ARL	01.07.2010
88	BTech	Mechanical Engineering	01.07.2018	MEL	01.07.2018
89	Btech	Civil Engineering	01.07.2018	CYL	01.07.2018

**Annexure-VII****Value Added Courses Imparting Transferable and Life Skills Offered During the Year Academic (2018-19)**

<b>Sr. No</b>	<b>Value Added Courses</b>	<b>Date of Introduction</b>	<b>Number of Students Enrolled</b>
1	Understanding the City Form	January,2019 to July,2019	30
2	Tools and Techniques in Biotechnology	January,2019 to July,2019	16
3	Internet Applications	January,2019 to July,2019	61
4	Operating System	January,2019 to July,2019	64
5	Indian Economic Issues and Policies	January,2019 to July,2019	50
6	Indian Economic Problems-II	January,2019 to July,2019	27
7	Assessment of Learning	January,2019 to July,2019	50
8	Development of Education in India	January,2019 to July,2019	50
9	Fundamentals of Communication Engineering	January,2019 to July,2019	3
10	Introduction to Fiber Optics	January,2019 to July,2019	2
11	Food Quality and Food Safety	January,2019 to July,2019	70
12	Introduction to Food Science and Nutrition	January,2019 to July,2019	48
13	Technology of Processed Foods	January,2019 to July,2019	70
14	Elementary French	January,2019 to July,2019	100
15	Elementary Russian	January,2019 to July,2019	49
16	Philosophy:Indian and Western	January,2019 to July,2019	154
17	Understanding Religion in the Modern Times	January,2019 to July,2019	150
18	Fundamentals of Map Preparation	January,2019 to July,2019	40
19	Guru Nanak Vishesh Adhyayan	January,2019 to July,2019	80
20	Hindi Sahitya Ka Parichyatmak Itihaas	January,2019 to July,2019	80
21	Hindi Shabad Sanrachna	January,2019 to July,2019	80
22	Hindi Upnyas (Bhagyawati)	January,2019 to July,2019	80
23	Kathakaar Munshi Premchand	January,2019 to July,2019	80
24	Natakkaar Mohan Rakesh	January,2019 to July,2019	81
25	History of Punjab(1469-1849)	January,2019 to July,2019	40
26	Basic Concepts in Human Genetics	January,2019 to July,2019	50
27	Introduction to Human Genetics	January,2019 to July,2019	11
28	Basic Concepts of Law-II	January,2019 to July,2019	27
29	Basic Concepts of Law-IV	January,2019 to July,2019	32
30	Basics of Librarianship	January,2019 to July,2019	29
31	Numerical Methods	January,2019 to July,2019	28
32	Molecular Biology and Genetics	January,2019 to July,2019	10
33	Basic Fundamentals & Practical Traning in Music (Instrumental)	January,2019 to July,2019	32
34	Basic Fundamentals & Practical Traning in Music (Vocal)	January,2019 to July,2019	30
35	Music Appreciation & Basic Training in Music Instrumental	January,2019 to July,2019	30
36	Music Appreciation & Basic Training in Music Vocal	January,2019 to July,2019	30
37	Fundamentals of Sports Psychology	January,2019 to July,2019	29
38	Basic and Fundamental Pharmacology	January,2019 to July,2019	20
39	Basics of Herbal Drug Development	January,2019 to July,2019	27
40	Pharm.Chem.XI: Pharmaceutical Analysis	January,2019 to July,2019	16
41	Fundamental of Physiotherapy	January,2019 to July,2019	14
42	Human Rights and Constitutional Duties	January,2019 to July,2019	837
43	Issues In Contemporary International Politics	January,2019 to July,2019	33
44	Perspectives and Processes of Indian Polity	January,2019 to July,2019	43
45	Perspectives of Public Administration	January,2019 to July,2019	49
46	Public Administration: Theory and Practice	January,2019 to July,2019	50





47	Indigenous Psychology	January,2019 to July,2019	0
48	Stress and Coping	January,2019 to July,2019	75
49	Adhunik Punjabi Kavita	January,2019 to July,2019	30
50	Adhunik Punjabi Sahit	January,2019 to July,2019	27
51	Adhunik Punjabi Vartak	January,2019 to July,2019	30
52	Punjab Di Lokdhara	January,2019 to July,2019	30
53	Punjabi Bhasha Ate Gurmukhi Lipi	January,2019 to July,2019	30
54	Punjabi Bhasha Da Itihaas	January,2019 to July,2019	30
55	Punjabi Lokdhara Ate Sabhyachaar	January,2019 to July,2019	30
56	Punjabi Novel	January,2019 to July,2019	30
57	Basics of Sanskrit Learning	January,2019 to July,2019	30
58	Hitopadesh : A Niti Granth	January,2019 to July,2019	30
59	Sanskrit Natak Based Upon Ramayan & Mahabharat	January,2019 to July,2019	35
60	Basics of Economics	January,2019 to July,2019	59
61	Indias Foreign Relations	January,2019 to July,2019	53
62	Sociology of Youth	January,2019 to July,2019	61
63	Corporate Governance & Business Ethics	January,2019 to July,2019	29
64	Entrepreneurship And Business Strategy	January,2019 to July,2019	60
65	Functional Management	January,2019 to July,2019	22
66	Organisational Behaviour	January,2019 to July,2019	50
67	Fundamentals of Business Management	January,2019 to July,2019	79
68	Urdu Poetry	January,2019 to July,2019	41
69	Concepts of Zoology	January,2019 to July,2019	50
70	Important Wildlife Projects in India	January,2019 to July,2019	48
71	Residential Architecture	July,2018 to December,2018	7
72	Socio Economic Aspects of Urban Environment	July,2018 to December,2018	30
73	Environmental Challenges	July,2018 to December,2018	50
74	Chemical Disasters	July,2018 to December,2018	11
75	Chemistry of Biological System	July,2018 to December,2018	11
76	Fashion and Apparel	July,2018 to December,2018	27
77	General Chemistry	July,2018 to December,2018	11
78	Computer Fundamentals	July,2018 to December,2018	60
79	Computer Programming	July,2018 to December,2018	30
80	Economic Analysis	July,2018 to December,2018	47
81	Essentials of Teaching	July,2018 to December,2018	50
82	Indian Philosophical Thoughts and Values	July,2018 to December,2018	49
83	Fundamentals of Wireless and Mobile Communication	July,2018 to December,2018	6
84	Food Hygiene and Sanitation	July,2018 to December,2018	70
85	Food Trends and Consumption	July,2018 to December,2018	31
86	Introduction to Food Processing	July,2018 to December,2018	70
87	Basic French	July,2018 to December,2018	100
88	Basic Russian	July,2018 to December,2018	50
89	Applied Ethics	July,2018 to December,2018	150
90	Guru Nanak Dev: Life and Teachings	July,2018 to December,2018	150
91	Elements of Human Settlements	July,2018 to December,2018	16
92	Guru Nanak Vishesh Adhyayan	July,2018 to December,2018	64
93	Hindi Kahaani	July,2018 to December,2018	80
94	Hindi Sahitya Ka Parichyatmak Itihaas	July,2018 to December,2018	80
95	Hindi Vyakran : Samanya Parichay	July,2018 to December,2018	80
96	Kabir : Vishesh Adhyayan	July,2018 to December,2018	80
97	Punjab Ka Hindi Upnyaas (Dharti Dhan Na Apna)	July,2018 to December,2018	90
98	Indian National Movement (A.D. 1857-1947)	July,2018 to December,2018	50
99	Human Genetics: Concepts and Applications	July,2018 to December,2018	37



100	Introduction to Human Biology	July,2018 to December,2018	40
101	Emerging Trends in Library and Information Science	July,2018 to December,2018	11
102	Numerical Methods	July,2018 to December,2018	23
103	Fundamentals in Microbiology	July,2018 to December,2018	11
104	Fundamentals of Biochemistry	July,2018 to December,2018	41
105	Basic Fundamentals & Practical Training in Music Instrumental	July,2018 to December,2018	30
106	Basic Fundamentals & Practical Training in Music Vocal	July,2018 to December,2018	30
107	Music Appreciation & Basic Training in Music Instrumental	July,2018 to December,2018	30
108	Music Appreciation & Basic Training in Music Vocal	July,2018 to December,2018	29
109	Physiology of Exercise & Nutrition	July,2018 to December,2018	40
110	Basics of Natural Drugs	July,2018 to December,2018	16
111	Drug Design and Drug Development	July,2018 to December,2018	10
112	Pharmaceutical Chemistry I:Organic Chem.	July,2018 to December,2018	10
113	Characterization Techniques	July,2018 to December,2018	10
114	Contemporary Punjab	July,2018 to December,2018	5
115	India in Global Politics	July,2018 to December,2018	9
116	Psychological Processes	July,2018 to December,2018	46
117	Adhunik Punjabi Kahani: Siddhant Te Vihaar	July,2018 to December,2018	2
118	Gurmat Kaav	July,2018 to December,2018	5
119	Kahani Ate Punjabi Kahani	July,2018 to December,2018	50
120	Kissa Kaav	July,2018 to December,2018	22
121	Lok Dharam Ate Punjabi Lokdhara	July,2018 to December,2018	0
122	Punjabi Viyakaran	July,2018 to December,2018	29
123	Sabyachaar Ate Punjabi Sabyachaar	July,2018 to December,2018	50
124	General Study of Chanakya S Arthashastra	July,2018 to December,2018	40
125	Panchatantra : A Niti Granth	July,2018 to December,2018	46
126	Purn Sardh Shatak Kavya on Bhagat Purn Singh Ji	July,2018 to December,2018	5
127	Globalization: An Overview	July,2018 to December,2018	49
128	Sociology of Science	July,2018 to December,2018	22
129	Business Communication	July,2018 to December,2018	12
130	Business Environment	July,2018 to December,2018	45
131	Business Laws	July,2018 to December,2018	1
132	Principles And Practices of Management	July,2018 to December,2018	20
133	Basics of Stock Market	July,2018 to December,2018	5
134	History of Persian Poetry	July,2018 to December,2018	6
135	History of Urdu Poetry	July,2018 to December,2018	1
136	Urdu Poetry	July,2018 to December,2018	27
137	Animal Diversity	July,2018 to December,2018	7
138	Concepts of Environmental Biology	July,2018 to December,2018	50

**Annexure-VIII****Field Projects/Internships taken during the academic year (2018-19)**

<b>Sr. No.</b>	<b>Project/Programme Title</b>	<b>Programme Specialization</b>	<b>Number of Students Enrolled for Field Projects/ Internship</b>
1	BSc (HS) IV Sem	Chemistry	100
2	MSc (HS) VI Sem	Chemistry	100
4	MSc Chemistry VI Sem	Chemistry	50
5	MSc Applied Chemistry (Pharma) VI sem	Applied Chemistry (Pharma)	100
6	BTech VIII Sem	Food Science & Technology	60
7	MSc II sem	Food Science & Technology	30
8	MSc II sem	Botany	30
9	MSc II sem	Biotechnology	14
10	BSc (HS)VIII Sem	Human Genetics	50
11	MSc (HS) Sem II Sem	Human Genetics	30
12	BPharma VIII Sem	Pharmacy	60
13	MPharma II Sem	Pharmacy	30
14	MA VI Sem	Psychology	40
15	BArch VII Sem	Architecture	80
16	Bachelor of Planning (Urban)III Sem	Urban and Regional Planning	40
17	Master of Planning (Urban)II Sem	Urban Planning	23
18	BTech III Sem	Urban and Regional Planning	40
19	MCA(FYIC) VI & X Sem	Computer Applications	60
20	MCA X Sem	Computer Applications	60
21	BCA VI Sem	Computer Applications	30
22	BTech (CSE) VIII Sem	Computer Science and Engineering	240
23	BTech (CE) VII Sem	Computer Science and Engineering	60
24	BTech (ECE) VIII Sem	Electronics and Communications Engineering	120
25	BTech (CCE) VIII Sem	Electronics and Communications Engineering	30
27	MCom VI Sem	Commerce	120
28	BCom (HS) X Sem	Commerce	60
29	MBA (FYIC) IV Sem	Business Administration	100
30	MBA VIII Sem	Business Administration	60
31	MBA (Marketing) VIII Sem	Marketing Management	60
32	MBA (Finance) VIII Sem	Financial Analysis	60
33	MA II Sem	Education	50
34	MEd II Sem	Education	50
35	LLB VI Sem	Law	120
36	BA (LLB) X Sem	Law	120
37	MPT (Sports Physiotherapy) within each Sem	Sports Physiotherapy	16
38	MSc (Sports Nutrition) within each Sem	Sports Nutrition	16
39	MSc (Sports Biochemistry) with in each Sem	Sports Biochemistry	16
40	MSc (Sports Physiology) with in each Sem	Sports Physiology	16
41	MA (Sports Psychology) with in each Sem	Sports Psychology	16
42	BTech (Civil Engineering) VIII Sem	Civil Engineering	21
43	BTech (Mechanical Engineering) VIII Sem	Mechanical Engineering	15

**Annexure-IX****Demand Ratio During the Academic Year 2018-19**

Sr.No	Name of the Programme	Programme Specialization	Number of Seats Available	Number of Applications Recieved	Students Enrolled
1	BArch	Architecture	82	170	82
2	MArch	Urban Design	30	11	4
3	MSc	Applied Chemistry (Pharma)	100	49	49
4	BTech	Textile Processing Technology	50	2	2
5	BSc (HS) (Chemistry)	Chemistry	100	2016	110
6	MSc (HS) (Chemistry)	Chemistry	100	106	106
7	MSc (Chemistry)	Chemistry	75	495	78
8	BTech	Computer Engineering	60	550	60
9	BTech	Computer Science and Engineering	240	834	226
10	MTech	Computer Science and Engineering	30	40	30
11	MCA	Computer Applications	60	192	60
12	MCA (FYIC)	Computer Applications	60	950	60
13	MSc (Biotechnology)	Biotechnology	29	116	16
14	BSc (HS)(Botany)	Botany	60	412	38
15	MSc (Botany)	Botany	110	412	71
16	MSc (Environmental Sciences)	Environmental Sciences	60	72	34
17	BSc (HS) (Human Genetics)	Human Genetics	60	60	60
18	MSc (Human Genetics)	Human Genetics	50	30	28
19	MSc (HS) (Human Genetics)	Human Genetics	30	11	11
20	MSc (Microbiology)	Microbiology	101	182	40
21	MEd (Education)	Education	50	70	24
22	MA (Education)	Education	50	15	8
23	BTech (ECE)	Electronics and Communications Engineering	120	0	123
24	MTech (ECE)	Electronics and Communications Engineering	30	0	25
25	MA (English)	English	60	159	60
26	BTech	Food Science & Technology	60	49	36
27	MSc (Food Technology)	Food Science & Technology	40	128	39
28	MA (Philosophy)	Philosophy	14	5	4
29	MA (Religious Studies)	Religious Studies	14	14	14



30	Bachelor of Planning	Urban and Regional Planning	40	30	17
31	BTech	Urban and Regional Planning	40	30	17
32	Master of Planning	Infrastructure Planning	20	21	16
33	Master of Planning	Urban Planning	23	72	24
34	MTech	Urban Planning	23	68	24
35	MA (Hindi)	Hindi	30	14	14
36	MA (History)	History	30	38	24
37	LLB (TYC)	Law	120	147	98
38	BA LLB (FYIC)	Law	120	150	120
39	LLM	Law	40	120	40
40	BLib & Information Science	Library & Information Science	30	25	17
41	MLib & Information Science	Library & Information Science	20	30	20
42	BSc (HS) (Mathematics)	Mathematics	60	250	60
43	MSc (Mathematics)	Mathematics	100	295	100
44	BSc (Medical Lab. Technology)	Medical Lab. Technology	60	43	38
45	MSc (Molecular Biology & Biochemistry)	Molecular Biology & Biochemistry	50	83	50
46	MPA (Vocal)	Music	50	28	21
47	MPA (Instrumental)	Music	50	16	14
48	BPharm	Pharmacy	60	1053	60
49	MPharm	Pharmacy	26	28	20
50	BPES	Physical Education and Sports	70	80	53
51	BPED	Physical Education	30	0	53
52	MPED	Physical Education	80	109	68
53	BSc (HS) (Physics)	Physics	75	450	75
54	MSc (HS) (Physics)	Physics	75	45	41
55	MSc (Physics)	Physics	62	355	62
56	BPT	Physiotherapy	60	252	60
57	MPT	Orthopaedic	16	55	16
58	MA (Political Science)	Political science	110	85	50
59	MA (Psychology)	Psychology	50	96	52
60	BSc (HS) (Economics)	Economics	80	80	80
61	MSc (HS) (Economics)	Economics	80	73	73
62	MA	Business Economics	40	15	15
63	MA (Sanskrit)	Sanskrit	22	20	13
64	BA (HS) (Punjabi)	Punjabi	90	45	30



65	MA (Punjabi)	Punjabi	50	64	50
66	BA (HS) (Social Sciences)	Social Sciences	100	310	101
67	MA (Sociology)	Sociology	24	34	22
68	MBA	Financial Analysis	60	650	57
69	MBA	Marketing Management	60	650	58
70	MBA	Business Administration	120	650	121
71	MBA	Human Resource Development	30	650	27
72	MBA (FYIC)	Business Administration	100	900	101
73	BCom (HS)	Commerce	60	60	60
74	MBA	Finance	60	300	60
75	MCom	Commerce	120	254	120
76	MCom (FYIC)	Commerce	60	0	60
77	MSc (HS) (Zoology) (FYIC)	Zoology	21	1858	21
78	MSc (Zoology)	Zoology	107	499	48
79	Master in Hospital Administration	Hospital Administration	19	19	19
80	MPT	Sports Physiotherapy	26	116	26
81	MSc	Sports & Nutrition	6	11	6
82	MSc	Exercise & Sports Psychology	4	4	4
83	MA	Sports Psychology	5	11	5
84	BTech	Civil Engineering	60	40	40
85	BTech	Mechanical Engineering	60	43	43
86	Bachelor of Tourism & Travel Management	Tourism and Hospitality	60	16	16
87	Bachelor of Hotel Management & Catering Technology	Tourism and Hospitality	40	39	39

**Annexure-X****Honours and Recognition Received by Teachers (Received Awards, Recognition, Fellowships at State, National, International Level from Government, Recognised Bodies During the Academic Year (2018-19))**

Sr. No.	Year of Award	Name of Full Time Teachers Receiving Awards from State Level, National Level, International Level	Designation	Name of the Award, Fellowship, Received from Government or Recognized Bodies
1	2018-19	Dr. Kamaljit Singh	Professor	Council member, National Organic Symposium Trust (NOST), India.
2	2018-19	Dr. Geeta Hundal	Professor	Member expert committee for DST-FIST program-Support under special Package to J&K: for four years commencing Sept. 2017 Member subject expert committee (SEC)- Chemical sciences for Women Scientist Scheme (WOS-A) Dean Sciences, MRS Punjab Technical University, Bathinda
3	2018-19	Dr. Manoj Kumar	Professor	Elected fellow of Indian Academy of Sciences, Bengaluru
4	2018-19	Dr. Vandana Bhalla	Associate Professor	Shiv Nath Rai Kohli memorial mid-career best scientist award. Council Member, Chemical Research Society of India (CRSI), Bangalore.
5	2018-19	Dr. Vikram Sandhu	Assistant Professor	Best Researcher Award (International Award) by Amaravathi Research Academy India
6	2018-19	Dr. Swati Mehta	Assistant Professor	Korea Foundation for Advanced Studies, South Korea
7	2018-19	Dr. Narpinder Singh	Professor	India Research Excellence-Citation Award in Agricultural Sciences awarded by Web of Science
8	2018-19	Dr. Maninder Kaur	Associate Professor	Awarded second prize for oral presentation at National conference on "New Horizon in Food Processing Technology and Nutrition" (SLIETCON-2019) organized by Sant Longowal Institute of Engineering and Technology, Longowal, held at NITTER, Chandigarh (01-02 March, 2019).
9	2018-19	Dr. Sunil	Assistant Professor	Sahitya Bhushan Samman
10	2018-19	Dr. Sunil	Assistant Professor	Sahitya Ratan Samman
11	2018-19	Dr. Sunil	Assistant Professor	Vilaxana Samaj Sarthi Samman
12	2018-19	Dr. Vasudha Sambyal	Professor	Associate Editor BMC Medical Genetics Journal
13	2018-19	Dr. Kamlesh Guleria	Assistant Professor	International Travel Grant from CSIR to attend The World Congress on Oncology &



				Immuno Oncology, Amsterdam, Netherlands (July 23-24, 2018)
				Executive Member, Punjab Academy of Sciences
				Associate Editor, BMC Medical Genetics
14	2018-19	Dr. Balbir Singh	Associate Professor	Eminent Researcher Award, International conference on Advances in Science and Technology, Rayat Bahra Ropar Campus, Punjab
15	2018-19	Dr. P.K. Pati	Professor	Appointed as a member of task force on Star College Scheme of Department of Biotechnology (DBT), New Delhi, Govt. of India for strengthening undergraduate science education for holistic development of colleges in India.
16	2018-19	Dr. P.K. Pati	Professor	Appointed as reviewer for the Fulbright application under the category for Doctoral Research (FNDR) Fellowship in the field of Agricultural Sciences—Plant related.
17	2018-19	Dr. Gurcharan Kaur	Professor	Task Force Member of DST 'INDO-US Fellowship for Women in STEMM
18	2018-19	Dr. Prabhjeet Singh	Professor	Nominated as Member, DBT Expert Committee on Agricultural Biotechnology (2018) for three years.
19	2018-19	Prof. Gurpreet Kaur	Professor	Creative Excellence Award (Reader & Writer's Society of India) P.W.S.I
20	2018-19	Dr. Puja Ohri	Associate Professor	Young Scientist Associate Award by Society of Plant Protection Sciences, ICAR NCIPM, New Delhi



**Annexure-XI****Number of Days From the Date of Semester-End/ Year-End Examination Till the Declaration of Results During the Academic Year (2018-19)**

<b>Sr. No</b>	<b>Name of the Programme</b>	<b>Programme Code</b>	<b>Semester/ Year</b>	<b>Last date of the Last Semester-End/Year-End Examination</b>	<b>Date of Declaration of Semester- End/ Year End Examination</b>
1	Bachelor of Architecture	ARL	May-19	17.05.2019	21.06.2019
2	Master of Architecture (Urban Design)	ARL	May-19	17.05.2019	26.06.2019
3	BTech (Textile Processing Technology)	CYL	May-19	17.05.2019	04.07.2019
4	MSc Applied Chemistry (Pharma)	CYL	May-19	17.05.2019	04.07.2019
5	BSc (HS) (Chemistry)	CYL	May-19	17.05.2019	04.07.2019
6	MSc (HS) (Chemistry)	CYL	May-19	17.05.2019	27.06.2019
7	MSc (Chemistry)	CYL	May-19	17.05.2019	27.06.2019
8	BTech (Comp Engg)	CSE	May-19	13.05.2019	04.06.2019
9	BTech (CSE )	CSE	May-19	13.05.2019	04.06.2019
10	MTech (CSE)	CSE	May-19	13.05.2019	04.07.2019
11	MCA	CSL	May-19	15.05.2019	03.07.2019
12	MCA (FYIC)	CSL	May-19	15.05.2019	02.07.2019
13	MSc (Biotechnology)	BTL	May-19	17.05.2019	14.06.2019
14	BSc (HS) (Botany)	BSL	May-19	15.05.2019	29.07.2019
15	MSc (Botany)	BSL	May-19	15.05.2019	29.07.2019
16	MSc (Envirnomenta Sciences)	BSL	May-19	15.05.2019	29.07.2019
17	BSc (HS) (Human Genetics)	HGL	May-19	28.05.2019	27.06.2019
18	MSc (Human Genetics)	HGL	May-19	28.05.2019	01.07.2019
19	MSc (HS) Human Genetics	HGL	May-19	28.05.2019	12.07.2019
20	MSc (Microbiology)	MCL	May-19	16.05.2019	03.07.2019
21	MEd (Education)	EDL	May-19	03.05.2019	21.08.2019
22	MA (Education)	EDL	May-19	03.05.2019	21.08.2019
23	BTech (ECE)	ECL	May-19	17.05.2019	13.06.2019
24	MTech (ECE)	ECL	May-19	17.05.2019	16.07.2019
25	MA (English)	ENG	May-19	17.05.2019	31.05.2019
26	BTech (Food Technology)	FTL	May-19	17.05.2019	25.07.2019
27	MSc (Food Technology)	FTL	May-19	17.05.2019	02.08.2019
28	MA (Philosophy)	GNL	May-19	15.052019	04.07.2019
29	MA (Religious Studies)	GNL	May-19	15.052019	04.07.2019



30	Bachelor of Planning (U&R)	HPL	May-19	16.05.2019	24.06.2019
31	BTech (URP)	HPL	May-19	16.05.2019	24.06.2019
32	Master of Planning (Urban)	GIL	May-19	16.05.2019	21.06.2019
33	Master of Planning (Infrastructure)	GIL	May-19	16.05.2019	21.06.2019
34	MTech (Urban Planning)	GUL	May-19	16.05.2019	21.06.2019
35	MA (Hindi)	HIN	May-19	23.05.2019	26.06.2019
36	MA (History)	HIL	May-19	23.05.2019	18.06.2019
37	LLB (TYC)	LAW	May-19	17.05.2019	28.06.2019
38	BALLB (FYIC)	LAW	May-19	17.05.2019	26.07.2019
39	LLM	LAW	May-19	17.05.2019	21.08.2019
40	BLib & Information Science	LSL	May-19	13.05.2019	31.07.2019
41	MLib & Information Science	LSL	May-19	13.05.2019	31.07.2019
42	BSc (HS) (Mathematics)	MTL	May-19	17.05.2019	03.07.2019
43	MSc (Mathematics)	MTL	May-19	17.05.2019	03.07.2019
44	BSc (Medical Lab. Technology)	MBL	May-19	17.05.2019	09.07.2019
45	MSC Molecular Biology & Biochemistry	MBL	May-19	16.05.2019	09.07.2019
46	MPA (Vocal)	MUL	May-19	17.05.2019	27.06.2019
47	MPA (Instrumental)	MUL	May-19	17.05.2019	27.06.2019
48	Bachelor Pharmacy	PHL	May-19	05.05.2019	31.05.2019
49	Master Pharmacy	PHL	May-19	05.05.2019	08.08.2019
50	BPES	PHE	Apr-19	27.05.2019	28.06.2019
51	BPED	PHE	Apr-19	23.05.2019	28.06.2019
52	MPED	PHE	Apr-19	27.05.2019	28.06.2019
53	BSc (HS) (Physics)	PHL	May-19	16.05.2019	27.06.2019
54	MSc (HS) (Physics)	PHL	May-19	16.05.2019	27.06.2019
55	MSc (Physics)	PHL	May-19	16.05.2019	27.06.2019
56	Bachelor of Physiotherapy (BPT)	SPL	May-19	17.05.2019	26.06.2019
57	Master in Physiotherapy (Orthopedic)	SPL	May-19	17.05.2019	26.06.2019
58	MA (Psychology)	PYL	May-19	28.05.2019	24.06.2019
59	BSc (HS) (Economics)	EDL	May-19	23.05.2019	21.06.2019
60	MSc (HS) (Economics)	EDL	May-19	23.05.2019	21.06.2019
61	MA (Business Economics)	EDL	May-19	23.05.2019	28.06.2019
62	MA (Sanskrit)	SKY	May-19	23.05.2019	21.06.2019
63	BA (HS) (Punjabi)	PBL	May-19	21.05.2019	13.06.2019
64	MA (Punjabi)	PBL	May-19	21.05.2019	09.07.2019



65	BA (HS) (Social Sciences)	SOS	May-19	15.05.2019	14.06.2019
66	MA (Sociology)	SOL	May-19	17.05.2019	21.06.2019
67	MBA (Financial Analysis)	MIL	May-19	12.05.2019	21.06.2019
68	MBA	MIL	May-19	12.05.2019	27.06.2019
69	MBA (Hospital Administration)	MIL	May-19	12.05.2019	21.06.2019
70	MBA (Marketing Management)	MIL	May-19	12.05.2019	28.06.2019
71	MBA (Human Resource Development)	MIL	May-19	12.05.2019	28.06.2019
72	MBA (FYIC)	MIL	May-19	12.05.2019	28.06.2019
73	BCom (HS)	MIL	May-19	31.05.2019	24.06.2019
74	MBA (Finance)	MIL	May-19	31.05.2019	24.06.2019
75	MCom (FYIC)	MIL	May-19	31.05.2019	24.06.2019
76	MCom	MIL	May-19	31.05.2019	24.06.2019
77	MSc (HS) (Zoology) (FYIC)	ZOL	May-19	16.05.2019	01.07.2019
78	MSc (Zoology)	ZOL	May-19	16.05.2019	01.07.2019
79	MPT (Sports Physiotherapy)	SPL	May-19	27.05.2019	28.06.2019
80	MSc (Sports & Nutrition)	SPL	May-19	27.05.2019	28.06.2019
81	MSc (Exercise & Sports Psychology)	SPL	May-19	27.05.2019	28.06.2019
82	MA (Sports Psychology)	SPL	May-19	27.05.2019	28.06.2019
83	Master in Hospital Administration	SPL	May-19	27.05.2019	28.06.2019
84	MA (Political Science)	POL	May-19	16.05.2019	05.07.2019
85	Master of Architecture (Sustainable Built Environment)	ARL	May-19	17.05.2019	26.06.2019
86	Btech (Mechanical Engineering)	MEL	May-19	13.05.2019	04.06.2019
87	Btech (Civil Engineering)	CYL	May-19	13.05.2019	04.06.2019
88	Bachelor of Tourism and Travel Management	MIL	May-19	12.05.2019	27.06.2019
89	Bachelor of Hotel Management and Catering Technology	MIL	May-19	12.05.2019	27.06.2019

**Annexure-XII****Pass Percentage of Students for Academic Year (2018-19)**

Sr.No.	Programme Code	Programme Name	Programme Specialization	Number of Students Appeared in the Final Year Examination	Number of Students Passed in Final Semester/Year Examination	Pass Percentage
1	LAW	BA LLB (HS) FYIC	Law	87	87	100.00
2	ARL	BArch	Architecture	74	74	100.00
3	MGL	MBA (FYIC)	Business Administration	31	31	100.00
4	CSL	MCA (FYIC)	Computer Application	53	53	100.00
5	FTL	BTech	Food Science & Technology	49	49	100.00
6	CEL	BTech	Computer Science & Engineering	181	181	100.00
7	ECL	BTech	Electronics & Communications Engineering	153	153	100.00
8	HPL	BTech	Urban & Regional Planning	21	21	100.00
9	CHL	BPharma	Pharmacy	41	41	100.00
10	PBL	BA (HS) (Punjabi)	Punjabi	25	24	96.00
11	SSL	BA (HS) (Social Science)	Social Science	68	68	100.00
12	CYL	BSc (HS) (Chemistry)	Chemistry	82	81	98.78
13	EDL	BSc (HS) (Economics)	Economics	61	61	100.00
14	HGL	BSc (HS) (Human Genetics)	Human Genetics	25	25	100.00
15	PHL	BSc (HS) (Physics)	Physics	61	60	98.36
16	LAW	LLB	Law	81	80	98.77
17	MIL	Bachelor of Tourism & Travel Management	Tourism and Hospitality	14	14	100.00
18	LIB	BLib & Library and Information Science	Library and Information Science	14	13	92.86
19	SPL	Bachelor of Physiotherapy	Physiotherapy	47	45	95.74
20	PHE	BPES	Physical Education	12	5	41.67



21	PHE	BPed	Physical Education	81	77	95.06
22	PHE	MPed	Physical Education	66	66	100.00
23	LAW	LLM	Law	76	70	92.11
24	CSL	MCA	Computer Applications	64	64	100.00
25	MUL	MPA (Vocal)	Music	30	30	100.00
26	MUL	MPA (Instrumental)	Music	26	26	100.00
27	EDL	MA	Business Economics	12	12	100.00
28	MGL	MBA	Financial Analysis	57	57	100.00
29	MGL	MBA	Marketing Management	53	53	100.00
30	EDL	MSc (HS) (Economics)	Economics	60	60	100.00
31	BTL	MSc (Biotechnology)	Biotechnology	15	15	100.00
32	CYL	MSc (HS) (Chemistry)	Chemistry	58	58	100.00
33	FTL	MSc (Food Technology)	Food Technology	28	28	100.00
34	PHL	MSc (HS) (Physics)	Physics	41	41	100.00
35	HGL	MSc (HS) (Human Genetics)	Human Genetics	16	16	100.00
36	CYL	MSc (Chemistry)	Chemistry	50	50	100.00
37	MBL	MSc (Molecular Biology & Biochemistry)	Molecular Biology & Biochemistry	40	40	100.00
38	HGL	MSc (Human Genetics)	Human Genetics	17	17	100.00
39	MCL	MSc (Microbiology)	Microbiology	39	39	100.00
40	PHL	MSc (Physics)	Physics	58	56	96.55
41	ZOL	MSc (Zoology)	Zoology	48	48	100.00
42	BSL	MSc (Environmental Sciences)	Environmental Sciences	27	27	100.00
43	BSL	MSc (Botany)	Botany	47	47	100.00
44	MTL	MSc (Mathematics)	Mathematics	41	41	100.00
45	HPL	MTech	Urban Planning	24	24	100.00
46	CEL	Mtech (CSE)	Computer Science & Engineering	37	37	100.00
47	ECL	Mtech (ECE)	Electronics & Communications Engineering	15	15	100.00



48	GUL	Master of Planning (Infrastructure)	Infrastructure Planning	18	18	100.00
49	ARL	March	Sustainable Built Environment	1	1	100.00
50	ARL	MArch	Urban Design	7	7	100.00
51	PYL	MA (Psychology)	Psychology	31	31	100.00
52	POL	MA (Political Science)	Political Science	50	50	100.00
53	ENG	MA (English)	English	32	32	100.00
54	HIS	MA (History)	History	21	21	100.00
55	HIN	MA (Hindi)	Hindi	16	16	100.00
56	GNL	MA (Philosophy)	Philosophy	4	4	100.00
57	GNL	MA (Religious Studies)	Religious Studies	14	14	100.00
58	SKS	MA (Sanskrit)	Sanskrit	7	7	100.00
59	SOL	MA (Sociology)	Sociology	14	14	100.00
60	PBL	MA (Punjabi)	Punjabi	51	51	100.00
61	EDL	MA (Education)	Education	11	11	100.00
62	SPL	MPT	Sports Physiotherapy	26	26	100.00
63	EDL	MEd (Education)	Education	27	27	100.00
64	MIL	MBA	Hospital Administration	7	7	100.00
65	PHL	MPharma	Pharmacy	20	20	100.00
66	MGL	MBA	Business Administration	114	114	100.00
67	MGL	MCom	Commerce	109	109	100.00
68	SPL	Master in Hospital Administration	Hospital Administration	17	17	100.00
69	LIB	MLib. & Information Science	Library & Information Science	20	19	95.00
70	CEL	BTech*	Computer Engineering	42	28	66.67
71	CYL	BTech (CE) *	Civil Engineering	46	23	50.00
72	MEL	BTech*	Mechanical Engineering	43	27	62.79
73	CYL	BTech *	Textile Processing	1	1	100.00



			Technology			
74	MTL	BSc (HS) (Mathematics) *	Mathematics	57	23	40.35
75	MBL	BSc (Medical Lab. Technology) *	Medical Lab. Technology	33	13	39.39
76	BTL	BSc (HS) (Botany) *	Botany	36	29	80.56
77	GUL	Bachelor of Planning *	Urban & Regional Planning	16	10	62.50
78	MGL	BCom (HS)*	Commerce	58	50	86.21
79	MIL	Bachelor of Hotel Management & Catering Technology *	Tourism and Hospitality	38	28	73.68
80	SPL	MA (Sports Psychology) *	Sports Psychology	3	3	100.00
81	MIL	MBA *	Human Resource Development	26	22	84.62
82	CYL	MSc *	Applied Chemistry (Pharmaceuticals)	49	32	65.31
83	SQL	MSc *	Sports Nutrition	6	6	100.00
84	SQL	MSc *	Exercise & Sports Physiology	4	4	100.00
85	ZOL	MSc (HS) (Zoology) (FYIC) *	Zoology	20	15	75.00
86	MGL	MBA*	Finance	58	57	98.28
87	SPL	MPT *	Orthopedics	16	15	93.75
88	MGL	MCom (FYIC) *	Commerce	57	51	89.47
89	GUL	Master of Planning (Urban) *	Urban Planning	24	24	100.00

**\*Indicate that the courses are introduced in 2018-2019 and the students have appeared in their First Year only.**

**Annexure-XIII****Teachers Awarded National/International Fellowship for Advanced Studies/  
Research During the Academic Year (2018-19)**

<b>Type</b>	<b>Name of the Teacher Awarded The Fellowship</b>	<b>Name of the Award</b>	<b>Date of Award</b>	<b>Awarding Agency</b>
<b>National</b>	Dr. M. S. Bhatti	Lifetime Achievement Award by Marquis Who's Who, USA, Member Technical Committee Punjab State Wetland, Member Principal Scientific Advisor (PSA) Consulative Group on Water by Govt. of India.	2019	Marquis Who's Who, USA.
<b>International</b>	Dr. Tejwant Singh Kang	JSPS Invitation Fellowship	2018	Japan Society for Promotion of Sciences
	Dr. Swati Sharma	Korea foundation of Advanced Studies, ISE Fellowship	2018	Korea Foundation for Advanced Studies, South Korea
	Dr. Amritpal Kaur	Indo-U.S. Fellowship for Women in STEMM (WISTEMM)	2018	Indo-U.S. WISTEMM
	Dr. Sanjana Mehrotra	Post-Doctoral Fellowship	2019	Department of Biomedicine, Aarhus University, Denmark.
	Dr. Bindiya Arora	INSA DFG Exchange Scientist Program	2018	Indian National Science Academy





**Annexure-XIV**

**Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and Other Fellows in the Institution Enrolled During the Academic Year (2018- 19)**

<b>Sr. No.</b>	<b>Name of Research Fellowship</b>	<b>Duration in Day of the Fellowship</b>	<b>Funding Agency</b>	<b>No. of Students</b>
1	Post-Doctoral	730	ICSSR	1
2	SRF	1095	UGC	18
3	JRF	1095	UGC	38
4	MANF	1095	UGC	2
5	MYAS Fellowship through NCSSR Scheme	1825	Ministry of Youth Affairs and Sports (NCSSR Scheme)	4
6	CISR	1095	CISR	5
7	ICMR-SRF	1095	ICMR	3
8	RGNF for SC	1095	UGC	4
9	RUSA 2.0	730	RUSA 2.0	3
10	INSPIRE	1095	DST (INSPIRE)	4
11	DST-SERB Project	1095	DST-SERB Govt. of India	4



## Annexure-XV

## Research funds sanctioned and received from various agencies, industry and other organisations during the academic year 2018-2019

Nature of the Project	Duration	Name of Funding Agency	Total Grant Sanctioned	Amount Received During the Year
Major Projects	2018-2019	CSIR	4,45,200	4,45,200
	2018-2019	DBT	20,74,853	20,74,853
	2018-2019	ICAR	6,33,463	6,33,463
	2018-2019	Govt. of Punjab	11,00,000	5,50,000
	2018-2019	Ministry of Rural Development, New Delhi	20,00,000	4,95,000
	2018-2019	Ministry of Rural Development, New Delhi	21,00,000	6,00,000
	2018-2019	SERB-DST	6,60,000	2,20,000
	2018-2019	Punjab State Council for Science and Technology	1,80,000	1,80,000
	2019-2022	MOFPI	730,08,000	59,04,000
	2018-2021	CSIR, New Delhi	18,00,000	9,82,000
	2018-2021	DST	43,49,000	23,90,515
	2018-2019	RUSA	60,00,000	30,00,000
	2018-2021	Ministry of Environment, Forests and Climate Change	71,80,000	71,80,000
	2018-2021	DBT	26,43,000	-
	2018-2021	CSIR, New Delhi	37,00,000	-
	2018-2021	DST	49,00,000	10,00,000
	2018-2019	SERB-DST	6,60,000	2,20,000
	2015-2019	DBT	40,00,000	6,74,000
	2015-2019	DST	40,00,000	9,00,000
	2018-2021	SERB-WEA	18,0,000	6,00,000
	2018-2019	Punjab Govt.	31,00,000	13,00,000
	2018-2021	DBT	57,64,000	40,14,400
	2018-2019	DST	31,19,000	8,00,000
	2018-2019	DST-SERB	30,69,000	
	2018-2019	ICSSR	7,00,000	2,80,000



	2018-2019	CSIR, New Delhi	1,56,00,000	62,00,000
	2018-2019	DST-SERB	19,23,000	65,000
	2017-2020	CSIR, New Delhi	12,00,000	4,00,000
	2018-2021	DST-SERB	28,00,000	9,00,000
	2015-2019	UGC-DAE-CSR Mumbai centre	7,50,000	2,50,000
	2018-2019	DST-SERB	37,00,000	22,50,000
	2018-2021	IUAC, New Delhi	7,14,880	7,14,880
	2018-2019	SERB, New Delhi	30,59,182	7,00,000
	2017-2020	DST-SERB Govt. of India	18,38,980	1200000
<b>Minor Projects</b>	2018-2019	UGC	1,00,000	1,00,000
<b>Interdisciplinary Projects</b>	-	-	-	-
<b>Industry Sponsored Projects</b>	2018-2019	6 months	1,69,000	1,69,000
	2018-2019	University-Industry Linkage Program	2,05,000	2,05,000
	2018-2019	University-Industry Linkage program	6,31,000	6,31,000
<b>Projects Sponsored by the University</b>	2018-2019	<i>Rashtriya Uchchatar Shiksha Abhiyan (RUSA)</i>	1,05,00,000	1,05,00,000
	2018-2019	RUSA	15,00,000	8,00,000
<b>Student Research Projects</b>	-	-	-	-
<b>International Projects</b>	2018-2019	DBT sponsored Indo-Brazil Project	5,16,429	5,16,429
	2018-2019	DST-DESY Program	3,00,000	3,00,000
	2019-2022	DST-Indo Hungary Project	27,00,000	9,00,000
<b>Any other(Specify)</b>	2018-2019	ICSSR	1,00,000	1,00,000
		<b>Total</b>	<b>1562,73,987</b>	<b>508,44,740</b>

**Annexure-XVI****Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative Practices During the Academic Year 2018-19**

<b>Title of Workshop/ Seminars</b>	<b>Name of Department</b>	<b>Date</b>
Creating Entrepreneurship Awareness	University - Industry Linkage Office of Guru Nanak Dev University Amritsar	06.04.2018
Recent Advances in Cancer Therapy: Pre- Clinical and Clinical Approaches	University - Industry Linkage Office of Guru Nanak Dev University Amritsar	26.03.2018
Strategies to Develop University-Industry Linkages	University - Industry Linkage Office of Guru Nanak Dev University Amritsar	27.08.2018
IPR Workshop on IPR, Patents and Patentability assessment	Intellectual Property Rights Cell, Guru Nanak Dev University Amritsar	08.11.2018
One-Day Training Awareness Program on Intellectual Property Rights	Intellectual Property Rights Cell, Guru Nanak Dev University Amritsar	15.11.2018
Outreach Program: IPR Chair Organized on IPR training Programme for MSMEs	Intellectual Property Rights Cell, Guru Nanak Dev University Amritsar	29.01.2019
Importance of Intellectual Property Rights	University - Industry Linkage Office of Guru Nanak Dev University Amritsar and PHD Chamber of Commerce & Industry	20.03.2019

**Annexure-XVII****Awards for Innovation Won by Institution/Teachers/Research Scholars/Students During the Academic Year (2018-19)**

<b>Title of the Innovation</b>	<b>Name of Awarded</b>	<b>Awarding Agency</b>	<b>Date of Award</b>	<b>Category</b>
Outstanding services achievements and contributions	Anupam Kaur	India International Friendship Society, New Delhi	March 28, 2019	Rashtriya Gaurav
Z. H. Sholapurwala Award For Fusion Research 2018	Kuldeep Singh	Plasma Science Society of India (PSSI)	December 7, 2018	Best Poster



**Annexure-XVIII**  
**Research Publications in the Journal Notified on UGC Website during the**  
**Academic Year 2018-19**

**National**

Sr. No.	Department	No. of Publication	Average Impact Factor, if any
1	Agriculture	1	-
2	Architecture	2	-
3	Botanical & Environmental Sciences	3	-
4	Chemistry	7	-
5	University School of Financial Studies	17	-
6	Punjab School of Economics	20	-
7	Food Science & Technology	10	-
8	Guru Nanak Studies	3	-
9	Hindi	17	-
10	Human Genetics	3	-
11	Library & Information Science	1	-
12	Mathematics	5	-
13	Microbiology	2	-
14	Molecular Biology & Biochemistry	1	-
15	Music	6	-
16	Pharmaceutical Sciences	6	-
17	Physics	1	-
18	Guru Ramdas School of Planning	10	-
19	Political Science	1	-
20	Psychology	9	-
22	School of Punjabi Studies	16	-
23	Sanskrit, Pali & Prakrit	3	-
24	School of Social Sciences	7	-
25	Sociology	8	-
26	Zoology	10	-
27	Education	19	-
28	University Business School	25	-
29	MYAS-GNDU Department of Sports Sciences and Medicine	2	-
30	Tourism and Hospitality	2	-
31	Electronics Technology	1	-

**International**

1	Agriculture	6	-
2	Architecture	1	-
3	Biotechnology	20	-
4	Botanical & Environmental Sciences	136	-
5	Chemistry	193	-
6	University School of Financial Studies	43	-
7	Punjab School of Economics	14	-
8	English	2	-
9	Food Science & Technology	39	-



10	Guru Nanak Studies	1	-
11	Hindi	9	-
12	History	1	-
13	Human Genetics	29	-
14	Laws	1	-
15	Library & Information Science	2	-
16	Mathematics	19	-
17	Microbiology	16	-
18	Molecular Biology & Biochemistry	31	-
19	Music	8	-
20	Pharmaceutical Sciences	52	-
21	Physical Education	18	-
22	Physics	109	-
23	Guru Ramdas School of Planning	7	-
24	Psychology	5	-
25	School of Punjabi Studies	3	-
26	Sanskrit, Pali & Prakrit	1	-
27	School of Social Sciences	4	-
28	Sociology	4	-
29	Physiotherapy	11	-
30	Zoology	33	-
31	Education	33	-
32	University Business School	25	-
33	Computer Science	17	-
34	Computer Engineering & Technology	49	-
35	Electronics Technology	65	-
36	MYAS-GNDU Department of Sports Sciences and Medicine	18	-
37	Mechanical Engineering (UIT)	8	-
38	Tourism and Hospitality	1	-
38	Civil Engineering	5	-



**Annexure-XIX**  
**Books and Chapters in edited Volumes / Books Published, and Papers in**  
**National/International Conference Proceedings per Teacher during the**  
**Academic Year 2018-19**

Sr.No	Department	No. of Publications
1	Architecture	5
2	Botanical & Environmental Sciences	52
3	Chemistry	8
4	University School of Financial Studies	7
5	Punjab School of Economics	13
6	English	7
7	Guru Nanak Studies	14
8	History	4
9	Human Genetics	4
10	Library & Information Science	6
11	Molecular Biology & Biochemistry	4
12	Music	12
13	Pharmaceutical Sciences	13
14	Physics	48
15	Guru Ramdas School of Planning	9
16	Psychology	5
17	Physiotherapy	9
18	Education	12
19	University Business School	16
20	Computer Science	4
21	Computer Engineering & Technology	12
22	Electronics Technology	36
23	Civil Engineering (UIT)	1
24	Foreign Languages	2
25	Hindi	2
26	Laws	2
27	Mathematics	2
28	School of Punjabi Studies	15
29	Urdu & Persian	3
30	Tourism and Hospitality	2
31	Agriculture	1
32	Biotechnology	6
33	Food Science & Technology	4
34	Microbiology	3
35	Political Science	1
36	Sanskrit, Pali & Prakrit	2
37	School of Social Sciences	3
38	Sociology	2
39	Zoology	11
40	Mechanical Engineering (UIT)	1



## Annexure-XX

## Bibliometrics of the Publications using the Last Academic Year based on Average Citation Index iIn Scopus/ Web of Science or Pubmed/ Indian Citation Index 2018-19

Sr. No	Title of the Paper	Name of Author	Title of Journal	Year of Publication	Citation Index	Institutional Affiliation as Mentioned in the Publication	Number of Citations excluding Self citation
1	Empirical model for quantification of confidentiality in OO system	Kumar R., Singh H.	International Journal of Engineering and Technology(UAE)	2018	-	Dept. of Computer Science, Khalsa College for Women, Amritsar, India; Dept. of Computer Science and Engineering, Guru Nanak Dev University, Amritsar, India	-
2	Comparative analysis of tissue compartmentalized heavy metal uptake by common forage crop: A field experiment	Bhatti S.S., Kumar V., Sambyal V., Singh J., Nagpal A.K.	Catena	2018	14	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 AmritsarPunjab, India	-
3	Control of insect pests in crop plants and stored food grains using plant saponins: A review	Singh B., Kaur A.	LWT - Food Science and Technology	2018	33	Post Graduate Department of Biotechnology, Khalsa College AmritsarPunjab 143002, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	-
4	Investors' probable solutions to their problems: a study of Punjab	Kaur J.	International Journal of Law and Management	2018	1	Post Graduate Department of Commerce and Management, Khalsa College for Women, Amritsar, India	-
5	MX/G/1 state dependent arrival queue with optional service and vacation under randomised policy	Singh C.J., Kumar B., Kaur S.	International Journal of Industrial and Systems Engineering	2018	1	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	-
6	Interrelationship of thyroid hormones, obesity, and prolactin in infertile women	Kataria J., Gill G.K., Kaur M.	Asian Journal of Pharmaceutical and Clinical Research	2018	2	Department of Khalsa College of Pharmacy & Technology, Amritsar, Punjab, India	-
7	Oxidation of benzyl alcohol in slurry phase over nanoporous ZrV2O7 catalyst and determination of reaction mechanism using DFT	Joshi S.K., Sohani N., Khare S., Batra M.S., Prasad R.	Asian Journal of Chemistry	2018	-	School of Chemical Sciences, Devi Ahilya Vishwavidyalaya, Indore, 452 001, India; Department of Chemistry, Khalsa College, Amritsar, 143 002, India	-
8	Organic flame retardant induced oxidative stress in various organs of freshwater fish channa punctatus	Sharma P., Chadha P., Kaur M.	Pollution Research	2018	-	Department of Zoology, Guru Nanak Dev University, Amritsar, India	-
9	Custodial violence in Kashmir by the Indian security forces: A spontaneous consequence or a deliberate counter-insurgency policy?	Deol S.S., Ganai R.A.	International Journal of Criminal Justice Sciences	2018	2	Department of Political Science, Guru Nanak Dev University, Amritsar, Punjab, India	-
10	Fuzzy link cost estimation based adaptive tree algorithm for routing optimization in wireless sensor networks using reinforcement learning	Singh K., Malhotra J.	International Journal of Sensors, Wireless Communications and Control	2018	-	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	-
11	An insight into drought stress and signal transduction of abscisic acid	Kumari A., Kaur R., Kaur R.	Plant Science Today	2018	3	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
12	Brief Communication: The 22nd edition (2018) of the searsust of subject headings. A brief introduction	Satija M.P.	Knowledge Organization	2018	-	Dept. of Library and Information Science, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
13	In vitro digestibility, pasting, and structural properties of starches from different cereals	Kaur H., Gill B.S., Karwasra B.L.	International Journal of Food Properties	2018	7	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	-
14	A bisubstrate reagent orchestrating adenosine triphosphate and L-tyrosine and making tyrosyl adenylate: Partial mimicking of tyrosyl-tRNA synthetase	Singh H., Kaur B., Kaur H., Singh P.	Organic and Biomolecular Chemistry	2018	1	Department of Chemistry and Centre for Advanced Studies, University with Potential for Excellence, Guru Nanak Dev University, Amritsar, 143005, India	-





15	Ultrafine hybrid Cu <sub>2</sub> O-Fe <sub>2</sub> O <sub>3</sub> nanoparticles stabilized by hexaphenylbenzene-based supramolecular assemblies: A photocatalytic system for the Ullmann-Goldberg coupling reaction	Singh G., Kumar M., Bhalla V.	Green Chemistry	2018	11	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
16	Topical Nanostructured Lipid Carrier Based Hydrogel of Mometasone Furoate for the Treatment of Psoriasis	Kaur N., Sharma K., Bedi N.	Pharmaceutical Nanotechnology	2018	10	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India	-
17	Conformational analysis of thioglycine molecule: A theoretical study	Kaur R.P., Singh H.	Asian Journal of Chemistry	2018	-	Department of Chemistry, Guru Nanak Dev University College, Verka, Amritsar, 143 501, India; Department of Bioinformatics, Hans Raj Mahila Maha Vidyalaya, Jalandhar, 144 008, India	-
18	Perception of advisors' regarding behaviour of investors' while selecting wealth management services: An AHP approach	Arora A., Verma R.	International Journal of Business and Globalisation	2018	-	Guru Nanak Dev University College, Ladowali Road, Jalandhar, Punjab, 144001, India; Guru Nanak Dev University, Amritsar, Punjab, 143040, India	-
19	BDNA-A DNA inspired symmetric key cryptographic technique to secure cloud computing	Sohal M., Sharma S.	Journal of King Saud University - Computer and Information Sciences	2018	6	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, 143005, India	-
20	Hybrid genetic, variable neighbourhood search and particle swarm optimisation-based job scheduling for cloud computing	Singh R.	International Journal of Computational Science and Engineering	2018	2	Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India	-
21	Emerging role of polyamines in plant stress tolerance	Khajuria A., Sharma N., Bhardwaj R., Ohri P.	Current Protein and Peptide Science	2018	1	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	-
22	CSPCR: Cloud security, privacy and compliance readiness - A trustworthy framework	Bhatia S., Malhotra J.	International Journal of Electrical and Computer Engineering	2018	4	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	-
23	A review of denoising medical images using machine learning approaches	Kaur P., Singh G., Kaur P.	Current Medical Imaging Reviews	2018	12	Department of Computer Engineering & Technology, Guru Nanak Dev University, Amritsar, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, India	-
24	Exploring organic photosensitizers based on hemicyanine derivatives: a sustainable approach for preparation of amide linkages	Deol H., Kumar M., Bhalla V.	RSC Advances	2018	3	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
25	Walkability and Legislation: How supportive is the legislative framework as regards pedestrian concerns in the Indian cities?	Singhal M.	Proceedings of the Annual International Conference on Architecture and Civil Engineering	2018	-	Department of Architecture, Guru Nanak Dev University, Amritsar, India	-
26	Disruptive effect of pyrogallol on development of Spodoptera litura (Fab.) larvae	Chauhan N.S., Sohal S.K.	Journal of Biopesticides	2018	2	Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India	-
27	Colloidal systems of surface active ionic liquids and sodium carboxymethyl cellulose: physicochemical investigations and preparation of magnetic nano-composites	Singh G., Singh G., Kang T.S.	Physical Chemistry Chemical Physics	2018	2	Department of Chemistry, UGC-Centre for Advance Studies-II, Guru Nanak Dev University, Amritsar, 143005, India	-
28	Multi-residue pesticides analysis in water samples using reverse phase high performance liquid chromatography (RP- HPLC)	Rajput S., Kumari A., Arora S., Kaur R.	MethodsX	2018	4	Department of Botanical & Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	-



29	Luminescent micellar nano-interfaces of surface active ionic liquid for the selective recognition of ADP in aqueous medium	Singh G., Kaur M., Shiekh B.A., Kang T.S.	Chemical Communications	2018	5	Department of Chemistry, University Grants Commission (UGC), Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
30	Evaluation and analysis of word embedding vectors of english text using deep learning technique	Singh J., Singh G., Singh R., Singh P.	Communications in Computer and Information Science	2018	-	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	-
31	Developer dynamics and syntactic quality of commit messages in OSS projects	Chahal K.K., Saini M.	IFIP Advances in Information and Communication Technology	2018	-	Department of Computer Science, Guru Nanak Dev University, Amritsar, India	-
32	Catalytic synthesis of 3-aminooxindoles: Via addition to isatin imine: An update	Kaur J., Chimni S.S.	Organic and Biomolecular Chemistry	2018	22	Department of Chemistry, U.G.C. Centre of Advance Study-II, Guru Nanak Dev University, Amritsar Punjab, India	-
33	'2TM proteins': An antigenically diverse superfamily with variable functions and export pathways	Kaur J., Hora R.	PeerJ	2018	3	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India	-
34	Evaluation of antidiabetic and antioxidant potential of endophytic fungi isolated from medicinal plants	Kaur J., Kaur R., Kaur A.	International Journal of Green Pharmacy	2018	2	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
35	Morphological evaluation and sentiment analysis of Punjabi text using deep learning classification	Singh J., Singh G., Singh R., Singh P.	Journal of King Saud University - Computer and Information Sciences	2018	7	Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Computer Science, Faculty of Engineering and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
36	Fashion self-congruity: scale development and validation	Anand S., Kaur H.	Journal of Fashion Marketing and Management	2018	2	Department of Commerce, Guru Nanak Dev University, Amritsar, India	-
37	Optimizing accuracy of sentiment analysis using deep learning based classification technique	Singh J., Singh G., Singh R., Singh P.	Communications in Computer and Information Science	2018	1	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	-
38	'Tilting towards south': Pattern and determinants of global value chains	Mehta S.	Seoul Journal of Economics	2018	2	Punjab School of Economics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
39	Influence of Twitter on prediction of election results	Singh P., Sawhney R.S.	Advances in Intelligent Systems and Computing	2018	4	Department of Computer Science, Guru Nanak Dev University, Amritsar, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	-
40	Synthesis, Characterization and Evaluation of Surface and Thermal Properties of 3-Cyclohexyloxy-2-Hydroxypropyl Pyridinium and Imidazolium Surface-Active Ionic Liquids	Aggarwal R., Singh S.	Journal of Surfactants and Detergents	2018	3	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India	-
41	Towards incorporating context awareness to recommender systems in internet of things	Pratibha, Kaur P.D.	Smart Innovation, Systems and Technologies	2018	3	GNDU Regional Campus, Jalandhar, India	-
42	Dynamic route optimization using nature-inspired algorithms in IoV	Chowdhary N., Kaur P.D.	Smart Innovation, Systems and Technologies	2018	3	Department of Computer Science and Engineering, GNDU RC Jalandhar, Jalandhar, India	-
43	Visible-light-mediated dehydrogenative cross-coupling between terminal alkynes and aldehydes by employing a supramolecular polymeric ensemble of PBI derivative	Kataria M., Deol H., Singh G., Kumar M., Bhalla V.	New Journal of Chemistry	2018	2	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-



44	Mixolab, retrogradation and digestibility behavior of chapatti made from hulless barley flours	Moza J., Gujral H.S.	Journal of Cereal Science	2018	9	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	-
45	Modulation of hydration characteristics of carbohydrates in aqueous medium of $\gamma$ -amino butyric acid via volumetric, rheological and time-domain longitudinal NMR relaxation studies	Banipal P.K., Kaur K., Kaur A., Mithu V.S., Banipal T.S.	Journal of Molecular Liquids	2018	1	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	-
46	Polyphenols in food: Cancer prevention and apoptosis induction	Sharma A., Kaur M., Katnoria J.K., Nagpal A.K.	Current Medicinal Chemistry	2018	19	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	-
47	Pluronic-SAILS (surface active ionic liquids) mixed micelles as efficient hydrophobic quercetin drug carriers	Singla P., Singh O., Chabba S., Mahajan R.K.	Journal of Molecular Liquids	2018	20	Department of Chemistry, UGC-centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India	-
48	Absorption Characterization of Mn-Zr Substituted La-Sr Hexaferrite Using Open-Circuit and Short-Circuit Approaches in 8.2–18 GHz Frequency Range	Narang S.B., Kaur P., Bahel S., Pubby K.	Journal of Electronic Materials	2018	7	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India	-
49	Security in IoT-based smart grid through quantum key distribution	Kaur M., Kalra S.	Advances in Intelligent Systems and Computing	2018	6	Department of Computer Science & Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, India	-
50	Investigation of ethanol gas sensing properties of Dy-doped SnO <sub>2</sub> nanostructures	Singh G., Kaur M., Arora B., Singh R.C.	Journal of Materials Science: Materials in Electronics	2018	6	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
51	Grayscale image enhancement using improved cuckoo search algorithm	Arora S., Kaur P.	Advances in Intelligent Systems and Computing	2018	-	Guru Nanak Dev University, Amritsar, Punjab 143001, India	-
52	An intelligent framework for workouts in gymnasium: M-Health perspective	Bhatia M., Sood S.K.	Computers and Electrical Engineering	2018	4	Guru Nanak Dev University, Regional Campus, Gurdaspur, India	-
53	Study of electrolytes and liver function tests in chronic alcoholism	Gill G.K., Kataria J., Singh A., Thakur L., Kaur D.	Asian Journal of Pharmaceutical and Clinical Research	2018	-	Department of Medical Laboratory Sciences, Khalsa College of Pharmacy and Technology, Amritsar, Punjab 143 001, India; Department of Pharmacognosy 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	-
54	Convergence of bidirectional PON with single-sink wireless sensor network using queue theory	Kumar L., Singh A., Sharma V.	Advances in Intelligent Systems and Computing	2018	-	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	-
55	A novel compact MIMO Planar inverted-F Antenna (PIFA) for future 5G wireless devices	Loharia N., Rana S.B., Kumar N.	International Journal of Engineering and Technology(UAE)	2018	1	Guru Nanak Dev University, Punjab, India; Thapar Institute of Engineering and Technology, Deemed University, Punjab, India	-
56	Enantioselective 1,4-Michael addition reaction of pyrazolin-5-one derivatives with 2-enoylpyridines catalyzed by: Cinchona derived squaramides	Sharma V., Kaur A., Sahoo S.C., Chimni S.S.	Organic and Biomolecular Chemistry	2018	5	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	-
57	Medicinal chemistry of acridine and its analogues	Prasher P., Sharma M.	MedChemComm	2018	13	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	-
58	Performance Estimation of Advanced Intensity Modulation Formats Using Hybrid SAC-OCMA through IsOWC Channel	Sarangal H., Thapar S.S., Singh P., Sharma I., Kaur H.	Journal of Optical Communications	2018	1	Guru Nanak Dev University RC Jalandhar, Jalandhar, Punjab, India; Indian Institute of Management Amritsar, Amritsar, Punjab, India	-



59	Development of a ROF-based System Using DQPSK through IsOWC channel for long haul data rate applications	Singh P., Sarangal H., Thapar S.S.	Journal of Optical Communications	2018	1	Guru Nanak Dev University RC, Punjab, Jalandhar, India; Indian Institute of Management, Punjab, Amritsar, India	-
60	Multifunctional metallo-supramolecular interlocked hexagonal microstructures for the detection of lead and thiols in water	Singh P., Mittal L.S., Kumar K., Sharma P., Bhargava G., Kumar S.	Chemical Communications	2018	14	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	-
61	Treatment of atopic dermatitis: Current status and future prospects	Sharma K., Sapra B., Bedi N.	Current Drug Therapy	2018	-	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, 147002, India	-
62	A novel design of compact monopole antenna with defected ground plane for wideband applications	Bhatia S.S., Sahni A., Rana S.B.	Progress In Electromagnetics Research M	2018	9	Yadavindra College of Engineering, Punjabi University, Guru Kashi Campus, Bathinda, Talwandi Sabo, Punjab, India; Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	-
63	Clinical decision support system query optimizer using hybrid Firefly and controlled Genetic Algorithm	Sharma M., Singh G., Singh R.	Journal of King Saud University - Computer and Information Sciences	2018	8	Department of Computer Science and Applications, DAV University, Jalandhar, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, India	-
64	Ramification of hustling the web application development	Kaur D., Kaur P.	International Journal of Engineering and Technology(UAE)	2018	-	Lyallpur Khalsa College, Jalandhar, India; GNDU, Amritsars, India	-
65	Azide-alkyne cycloaddition En route to 1H-1,2,3-triazole- tethered isatin-ferrocene, ferroceny lmethoxy-isatin, and isatin- ferrocenylchalcone conjugates: Synthesis and antiproliferative evaluation	Singh A., Saha S.T., Perumal S., Kaur M., Kumar V.	ACS Omega	2018	18	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	-
66	Accurate Prediction of Life Style Based Disorders by Smart Healthcare Using Machine Learning and Prescriptive Big Data Analytics	Sharma M., Singh G., Singh R.	Advances in Parallel Computing	2018	-	Department of CSA, DAV University, Jalandhar, India; Guru Nanak Dev University, Amritsar, India	-
67	Enhanced gain in S+C band utilizing TDFA-FRA hybrid amplifier in cascaded and parallel configurations at reduced channel spacings for DWDM systems	Singh K., Kaur G., Singla S.K., Kaur P.	Journal of Optoelectronics and Advanced Materials	2018	1	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab 147001, India	-
68	Menstrual Hygiene, Management, and Waste Disposal: Practices and Challenges Faced by Girls/Women of Developing Countries	Kaur R., Kaur K., Kaur R.	Journal of Environmental and Public Health	2018	12	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Govt. Polytechnic College for Girls, Amritsar, India	-
69	Controllable supramolecular self-assemblies (rods-wires- spheres) and ICT/PET based perylene probes for palladium detection in solution and the solid state	Kumar K., Bhargava G., Kumar S., Singh P.	New Journal of Chemistry	2018	23	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	-
70	Landau damping of dust acoustic solitary waves in nonthermal plasmas	Ghai Y., Saini N.S., Eliasson B.	Physics of Plasmas	2018	5	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; SUPA, Department of Physics, University of Strathclyde, Glasgow, G4 ONG, United Kingdom	-
71	Microwave-promoted facile access to 4-aminoquinoline- phthalimides: Synthesis and anti-plasmodial evaluation	Rani A., Singh A., Gut J., Rosenthal P.J., Kumar V.	European Journal of Medicinal Chemistry	2018	12	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Medicine, University of California, San Francisco, CA, United States	-
72	Proposed Better Sequence Alignment					Department of Computer Science, Guru Nanak Dev University Regional Campus,	



	for Identification of Organisms Using DNA Barcode	Kaur S., Kaur S., Sood S.K.	Studies in Computational Intelligence	2018	-	Gurdaspur, Punjab, India; Department of Computer Science, Shanti Devi Arya Mahila College Dinanagar, Gurdaspur, Punjab, India	-
73	A conceptual framework for analysing the source code dependencies	Ratti N., Kaur P.	Advances in Intelligent Systems and Computing	2018	1	Department of CSE, RIEIT, Railmajra, India; Department of CSE, GNDU, Amritsar, India	-
74	Synthesis, structures, and ESI-mass studies of silver(I) derivatives of imidazolidine-2-thiones: Antimicrobial potential and biosafety evaluation	Aulakh J.K., Lobana T.S., Sood H., Arora D.S., Smolinski V.A., Duff C.E., Jasinski J.P.	Journal of Inorganic Biochemistry	2018	13	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	-
75	Modulation of antioxidative defense expression and osmolyte content by co-application of 24-epibrassinolide and salicylic acid in Pb exposed Indian mustard plants	Kaur Kohli S., Handa N., Bali S., Arora S., Sharma A., Kaur R., Bhardwaj R.	Ecotoxicology and Environmental Safety	2018	21	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Botany, DAV University, Sarmastpur, Jalandhar, 144012, India	-
76	Performance Evaluation of Hybrid FSO-SACOCMA System under Different Weather Conditions	Sarangal H., Singh A., Malhotra J., Thapar S.S.	Journal of Optical Communications	2018	1	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	-
77	Synthesis, structures, antimicrobial activity and biosafety evaluation of pyridine-2-formaldehyde-N-subsituted- thiosemicarbazones of copper(ii)	Kaushal M., Lobana T.S., Nim L., Kaur J., Bala R., Hundal G., Arora D.S., Garcia-Santos I., Duff C.E., Jasinski J.P.	New Journal of Chemistry	2018	7	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	-
78	Energy efficient cognitive body area network (CBAN) using lookup table and energy harvesting	Singh M., Kumar M., Malhotra J.	Journal of Intelligent and Fuzzy Systems	2018	-	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	-
79	Multiple peaks in gel permeation chromatographs of poly(l- lactide)	Kaur P., Mehta R., Berek D.	Asian Journal of Chemistry	2018	-	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	-
80	AIE + ESIPT based red fluorescent aggregates for visualization of latent fingerprints	Singh H., Sharma R., Bhargava G., Kumar S., Singh P.	New Journal of Chemistry	2018	8	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	-
81	Synthesis, structures and antimicrobial activity of copper derivatives of N - substituted imidazolidine-2-thiones: Unusual bio-activity against Staphylococcus epidermidis and Enterococcus faecalis	Lobana T.S., Aulakh J.K., Sood H., Arora D.S., Garcia-Santos I., Kaur M., Duff C.E., Jasinski J.P.	New Journal of Chemistry	2018	6	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	-
82	Structural diversity and photo-physical and magnetic properties of dimeric to 1D polymeric coordination polymers of lighter lanthanide(III) dinitrobenzoates	Jassal A.K., Sran B.S., Suffren Y., Bernot K., Pointillart F., Cadot O., Hundal G.	Dalton Transactions	2018	10	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	-
83	5,6-Benzoflavones as cholesterol esterase inhibitors: Synthesis, biological evaluation and docking studies	Singh J.V., Kaur A., Bhagat K., Gupta M.K., Singh M., Singh H., Bedi P.M.S.	MedChemComm	2018	-	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	-



84	Smart surveillance robot for real-time monitoring and control system in environment and industrial applications	Nayyar A., Puri V., Nguyen N.G., Le D.N.	Advances in Intelligent Systems and Computing	2018	8	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	-
85	Unprecedented self-assembled architectures of surface- active ionic liquids in aqueous medium	Singh G., Kaur M., Drechsler M., Kang T.S.	Chemical Communications	2018	12	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	-
86	Design, synthesis, anti-proliferative evaluation and docking studies of 1: H -1,2,3-triazole tethered ospemifene-isatin conjugates as selective estrogen receptor modulators	Kumar S., Gu L., Palma G., Kaur M., Singh-Pillay A., Singh P., Kumar V.	New Journal of Chemistry	2018	8	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	-
87	PHISTc protein family members localize to different subcellular organelles and bind Plasmodium falciparum major virulence factor PfEMP-1	Kumar V., Kaur J., Singh A.P., Singh V., Bisht A., Panda J.J., Mishra P.C., Hora R.	FEBS Journal	2018	7	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	-
88	Protective role of selenium against chromium stress involving metabolites and essential elements in Brassica juncea L. seedlings	Handa N., Kohli S.K., Thukral A.K., Bhardwaj R., Alyemeni M.N., Wijaya L., Ahmad P.	3 Biotech	2018	19	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	-
89	Pharmacotherapeutic potential of phytochemicals: Implications in cancer chemoprevention and future perspectives	Kaur V., Kumar M., Kumar A., Kaur K., Dhillon V.S., Kaur S.	Biomedicine and Pharmacotherapy	2018	26	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	-
90	Development and validation of ultraviolet spectrophotometric method for estimation of frovatriptan succinate monohydrate in bulk and pharmaceutical dosage form	Harmanpreet S., Surajpal V., Paul S.Y., Singh N.R., Narang J.K.	Asian Journal of Pharmaceutics	2018	-	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	-
91	Jasmonic acid seed treatment stimulates insecticide detoxification in brassica juncea L.	Sharma A., Kumar V., Yuan H., Kanwar M.K., Bhardwaj R., Thukral A.K., Zheng B.	Frontiers in Plant Science	2018	13	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	-
92	Tailoring of the chlorine sensing properties of substituted metal phthalocyanines non-covalently anchored on single- walled carbon nanotubes	Sharma A.K., Mahajan A., Kumar S., Debnath A.K., Aswal D.K.	RSC Advances	2018	3	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	-
93	Synthesis, spectral characterization, antibacterial and anticancer activity of some titanium complexes	Kaushal R., Kumar N., Thakur A., Nehra K., Awasthi P., Kaushal R., Arora S.	Anti-Cancer Agents in Medicinal Chemistry	2018	1	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 (Sonapat), 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	-



94	Li doping induced physico-chemical modulations in Cd ferrite (Cd <sub>1-x</sub> Fe <sub>2-x</sub> O <sub>4-x</sub> ) synthesized using aqueous ammonia assisted co-precipitation route	Gupta M., Anu, Mudsainiyan R.K., Randhawa B.S.	Materials Science and Engineering B: Solid-State Materials for Advanced Technology	2018	3	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	-
95	Castasterone confers copper stress tolerance by regulating antioxidant enzyme responses, antioxidants, and amino acid balance in <i>B. juncea</i> seedlings	Yadav P., Kaur R., Kanwar M.K., Sharma A., Verma V., Sirhindi G., Bhardwaj R.	Ecotoxicology and Environmental Safety	2018	19	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	-
96	Reversible and fast responding ppb level Cl <sub>2</sub> sensor based on noncovalent modified carbon nanotubes with Hexadecafluorinated copper phthalocyanine	Sharma A.K., Mahajan A., Saini R., Bedi R.K., Kumar S., Debnath A.K., Aswal D.K.	Sensors and Actuators, B: Chemical	2018	17	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	-
97	Non-covalently anchored multi-walled carbon nanotubes with hexadecafluorinated zinc phthalocyanine as ppb level chemiresistive chlorine sensor	Sharma A.K., Mahajan A., Bedi R.K., Kumar S., Debnath A.K., Aswal D.K.	Applied Surface Science	2018	19	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	-
98	Combined effect of 24-epibrassinolide and salicylic acid mitigates lead (Pb) toxicity by modulating various metabolites in <i>Brassica juncea</i> L. seedlings	Kohli S.K., Handa N., Sharma A., Gautam V., Arora S., Bhardwaj R., Alyemeni M.N., Wijaya L., Ahmad P.	Protoplasma	2018	37	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	-
99	Deranged metabolic profile and identification of biomarkers in the vitreous humour of patients with proliferative diabetic retinopathy	Sahajpal N.S., Vig V.K., Singh R., Singh H., Chaubey A., Singh K., Goel R.K., Jain S.K.	Protein and Peptide Letters	2018	-	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	-
100	4-aryl/heteroaryl-4H-fused pyrans as anti-proliferative agents: Design, synthesis and biological evaluation	Kumar D., Singh G., Sharma P., Qayum A., Mahajan G., Mintoo M.J., Singh S.K., Mondhe D.M., Bedi P.M.S., Jain S.K., Gupta G.K.	Anti-Cancer Agents in Medicinal Chemistry	2018	5	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	-
101	Aluminum and chromium substituted Z-type hexaferrites for antenna and microwave absorber applications	Basandrai D., Bedi R.K., Dhami A., Sharma J., Narang S.B., Pubby K., Gupta A., Srivastava A.K.	Journal of Sol-Gel Science and Technology	2018	4	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	-
102	Structural complexity and functional diversity of plant NADPH oxidases	Kaur G., Guruprasad K., Temple B.R.S., Shirvanyants D.G., Dokholyan N.V., Pati P.K.	Amino Acids	2018	9	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	-



103	Role of 24-epibrassinolide (EBL) in mediating heavy metal and pesticide induced oxidative stress in plants: A review	Shahzad B., Tanveer M., Che Z., Rehman A., Cheema S.A., Sharma A., Song H., Rehman S.U., Zhaorong D.	Ecotoxicology and Environmental Safety	2018	63	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	-
104	Highly Potent 1H-1,2,3-Triazole-Tethered Isatin- Metronidazole Conjugates Against Anaerobic Foodborne, Waterborne, and Sexually-Transmitted Protozoal Parasites	Kumar S., Bains T., Won Kim A.S., Tam C., Kim J., Cheng L.W., Land K.M., Debnath A., Kumar V.	Frontiers in cellular and infection microbiology	2018	4	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, La Jolla, San Diego, 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	-
105	Ecological risk assessment of metals in roadside agricultural soils: A modified approach	Bhatti S.S., Bhat S.A., Kumar V., Kaur M., Minakshi, Sambyal V., Singh J., Vig A.P., Nagpal A.K.	Human and Ecological Risk Assessment	2018	5	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	-
106	Tailor made exfoliated reduced graphene oxide nanosheets based on oxidative-exfoliation approach	Kaur A., Kaur J., Singh R.C.	Fullerenes Nanotubes and Carbon Nanostructures	2018	5	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India	-
107	Modified KdV equation for trapped ions in polarized dusty plasma	Singh K., Kaur N., Sethi P., Saini N.S.	AIP Conference Proceedings	2018	1	Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
108	Dust ion-acoustic shock waves in magnetized pair-ion plasma with kappa distributed electrons	Kaur B., Singh M., Saini N.S.	AIP Conference Proceedings	2018	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
109	Freak waves in dusty plasma with two temperature superthermal ions	Sethi P., Kaur N., Singh K., Saini N.S.	AIP Conference Proceedings	2018	2	Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
110	Effect of polarization force on large amplitude dust kinetic Alfvén waves	Singh M., Kohli R., Kaur N., Saini N.S.	AIP Conference Proceedings	2018	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
111	Catalyst-Controlled Structural Divergence: Selective Intramolecular 7-endo-dig and 6-exo-dig Post-Ugi Cyclization for the Synthesis of Benzoxazepinones and Benzoxazinones	Singh K., Malviya B.K., Roy T.K., Mithu V.S., Bhardwaj V.K., Verma V.P., Chimni S.S., Sharma S.	Journal of Organic Chemistry	2018	17	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	-
112	Exogenously applied putrescine improves the physiological responses of tomato plant during nematode pathogenesis	Khajuria A., Ohri P.	Scientia Horticulturae	2018	4	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
113	Rational modification of semaxanib and sunitinib for developing a tumor growth inhibitor targeting ATP binding site of tyrosine kinase	Kaur J., Kaur B., Singh P.	Bioorganic and Medicinal Chemistry Letters	2018	6	Department of Chemistry, UGC Sponsored Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India	-
114	Development of validated high-temperature reverse-phase UHPLC-PDA analytical method for simultaneous analysis of five natural isothiocyanates in cruciferous vegetables	Robin, Arora R., Arora S., Vig A.P.	Food Chemistry	2018	4	Department of Botanical & Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
115	Chemical profiling of polyphenols in extracts from bark of <i>Acacia nilotica</i> (Linn.) and their efficacy against <i>Spodoptera litura</i> (Fab.)	Gautam S., Samiksha, Robin, Arora S., Sohal S.K.	Archives of Phytopathology and Plant Protection	2018	1	Department of Zoology, Guru Nanak Dev University, Amritsar, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India	-





116	Vector-Valued Nonuniform Wavelet Packets	Mittal M., Manchanda P.	Numerical Functional Analysis and Optimization	2018	-	Lajpat Rai D.A.V. College, Jagraon, India; Department of Mathematics, Guru Nanak Dev University, Amritsar, India	-
117	Characteristic study of N07718 superalloy surface prepared by cold spray	Singh H., Khosla H., Sidhu T.S., Kalsi S.B.S., Karthikeyan J.	Materials and Manufacturing Processes	2018	6	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., Lambert, Barberton, OH, United States	-
118	Surface modification of metallic biomaterials for enhanced functionality: a review	Mahajan A., Sidhu S.S.	Materials Technology	2018	19	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	-
119	Influence of anchors on the quantum transport through benzene based molecular wire	Vohra R., Sawhney R.S.	Journal of Bionanoscience	2018	2	Guru Nanak Dev University, Amritsar, 143005, India	-
120	Arbitrary amplitude dust kinetic Alfvén solitary waves in the presence of polarization force	Singh M., Kaur N., Saini N.S.	Physics of Plasmas	2018	4	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
121	Silver nanoparticles anchored reduced graphene oxide for enhanced electrocatalytic activity towards methanol oxidation	Kumar S., Mahajan M., Singh R., Mahajan A.	Chemical Physics Letters	2018	17	Material Science Research LaboratoryDepartment of PhysicsGuru Nanak Dev University, Amritsar, 143005, India; Department of PhysicsKanya Maha Vidyalaya, Jalandhar, 144004, India	-
122	Glass and anti-glass phase co-existence and structural transitions in bismuth tellurite and bismuth niobium tellurite systems	Gupta N., Khanna A.	Journal of Non-Crystalline Solids	2018	16	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
123	Internet of Things-based student performance evaluation framework	Verma P., Sood S.K.	Behaviour and Information Technology	2018	4	Computer Science and Engineering Department, Guru Nanak Dev University, Gurdaspur, India	-
124	Li <sub>1.11</sub> -yTa <sub>0.89</sub> -3yTi <sub>0.11</sub> +4yO <sub>3</sub> M-phase solid solutions: structural, dielectric and optical characterization	Kaur G., Bahel S., Narang S.B.	Journal of Materials Science: Materials in Electronics	2018	1	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India	-
125	Thermally stable microemulsions comprising imidazolium based surface active ionic liquids, non-polar ionic liquid and ethylene glycol as polar phase	Kaur M., Singh G., Kumar S., Navnidhi, Kang T.S.	Journal of Colloid and Interface Science	2018	19	Department of Chemistry, UGC-Centre for Advance Studies – II, Guru Nanak Dev University, Amritsar, 143005, India	-
126	Hydrogen bonded complexes of oxazole family: electronic structure, stability, and reactivity aspects	Chopra N., Kaur D., Chopra G.	Structural Chemistry	2018	4	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	-
127	A closed testing procedure for comparing successive exponential populations with respect to location parameter	Singh P., Singh N.	Communications in Statistics - Theory and Methods	2018	-	Department of Mathematics, Guru Nanak Dev University, Amritsar, India	-
128	Electronic and transport properties of silicene-based ammonia nanosensors: an ab initio study	Walia G.K., Randhawa D.K.K.	Structural Chemistry	2018	10	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, 144007, India	-
129	Influence of replacing wheat bran with barley bran on dough rheology, digestibility and retrogradation behavior of chapatti	Gujral H.S., Sharma B., Khatri M.	Food Chemistry	2018	17	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	-
130	Comparison of hydrogen- and halogen-bonding interactions in the complexes of the substituted carbonyl compounds with hypohalous acids and monohaloamines	Kaur D., Kaur R., Chopra G.	Structural Chemistry	2018	5	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	-



131	Cluster-based single-sink wireless sensor networks and passive optical network converged network incorporating sideband modulation schemes	Kumar L., Sharma V., Singh A.	Optical Engineering	2018	5	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	-
132	Punica granatum (pomegranate) carpellary membrane and its modified form used as adsorbent for removal of cadmium (II) ions from aqueous solution	Saini S., Kumar R., Chawla J., Kaur I.	Journal of Water Supply: Research and Technology - AQUA	2018	4	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	-
133	Enhancement of gold and silver recovery from discarded computer printed circuit boards by Pseudomonas balearica SAE1 using response surface methodology (RSM)	Kumar A., Saini H.S., Kumar S.	3 Biotech	2018	6	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	-
134	Physico-chemical, hydration, cooking, textural and pasting properties of different adzuki bean (Vigna angularis) accessions	Yadav U., Singh N., Kaur A., Thakur S.	Journal of Food Science and Technology	2018	5	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Institute of Home Economics, University of Delhi, New Delhi, India	-
135	Hybrid channel estimation for MIMO relay systems with Doppler offset influences	Kaur H., Khosla M., Sarin R.K.	International Journal of Communication Systems	2018	6	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	-
136	Dust ion acoustic freak waves in a plasma with two temperature electrons featuring Tsallis distribution	Chahal B.S., Singh M., Shalini, Saini N.S.	Physica A: Statistical Mechanics and its Applications	2018	7	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, Lyallpur Khalsa College, Jalandhar, 144001, India	-
137	Bioleaching of Gold and Silver from Waste Printed Circuit Boards by Pseudomonas balearica SAE1 Isolated from an e- Waste Recycling Facility	Kumar A., Saini H.S., Kumar S.	Current Microbiology	2018	19	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	-
138	Preliminary investigation of the effect of doping of copper oxide in CaO-SiO <sub>2</sub> -P <sub>2</sub> O <sub>5</sub> -MgO bioactive composition for bone repair applications	Kaur P., Singh K.J., Yadav A.K., Sood H., Kaur S., Kaur R., Arora D.S., Kaur S.	Materials Science and Engineering C	2018	10	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	-
139	Self-assembled small molecule based fluorescent detection of serum albumin proteins: Clinical detection and cell imaging	Singh P., Mittal L.S., Kaur S., Kaur S., Bhargava G., Kumar S.	Sensors and Actuators, B: Chemical	2018	30	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	-
140	Effect of guar gum conjugation on functional, antioxidant and antimicrobial activity of egg white lysozyme	Hamdani A.M., Wani I.A., Bhat N.A., Siddiqi R.A.	Food Chemistry	2018	22	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	-
141	Fabrication of Biodegradable Superabsorbent Using RSM Design for Controlled Release of KNO <sub>3</sub>	Sharma J., Sukriti, Kaith B.S., Bhatti M.S.	Journal of Polymers and the Environment	2018	13	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	-
142	Genetic association of -1562C>T polymorphism in the MMP9 gene with primary glaucoma in a north Indian population	Thakur N., Kupani M., Pandey R.K., Mannan R., Pruthi A., Mehrotra S.	PLoS ONE	2018	3	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	-
143	Journey Heading towards	Kaur J., Chauhan P., Singh S.	Chemical Record			Department of Chemistry, U.G.C. Centre of Advanced Studies in Chemistry, Guru	



	Enantioselective Synthesis Assisted by Organocatalysis	Chimni S.S.		2018	8	Nanak Dev University, Amritsar, India; Institute of Organic Chemistry, RWTH Aachen University, Germany; Department of Chemistry, University of Texas, Dallas, United States	-
144	Response surface methodology for investigating structure–function relationship of grain legume proteins	Mune Mune M.A., Sogi D.S., Minka S.R.	Journal of Food Processing and Preservation	2018	2	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	-
145	Influence of different isolation methods on physicochemical and rheological properties of native and heat-moisture- treated chickpea starch	Singh S., Thakur S., Singh M., Kumar A., Kumar A., Kumar A., Punia R., Kushwaha J., Kumar R., Singh H.	Journal of Food Processing and Preservation	2018	3	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	-
146	Structural study of glasses in the system B2O3-Bi2O3-La2O3- WO3	Iordanova R., Milanova M., Aleksandrov L., Khanna A.	Journal of Non-Crystalline Solids	2018	6	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	-
147	Sol-gel route approach and improvisation in physico- chemical, structural, magnetic and electrical properties of BaCo <sub>0.2</sub> Zn <sub>0.8</sub> /2ZrxFe(12–2x)O <sub>19</sub> ferrites	Kaur Jassal A., Mudsainiyan R.K., Chawla S.K., Anu, Bindra Narang S., Pubby K.	Journal of Magnetism and Magnetic Materials	2018	7	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	-
148	Crystal engineering of versatile Hg(II) halides complexes of N,N,N',N'-tetraalkyl substituted 3,5 pyridinedi-carboxamides	Rana L.K., Sharma S., Hundal G.	Journal of Molecular Structure	2018	1	Department of Chemistry, Centre of Advance Studies-II, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
149	An effective framework for finding similar cases of dengue from audio and text data using domain thesaurus and case base reasoning	Sandhu R., Kaur J., Thapar V.	Enterprise Information Systems	2018	3	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	-
150	An azine based sensor for selective detection of Cu <sup>2+</sup> ions and its copper complex for sensing of phosphate ions in physiological conditions and in living cells	Tiwari K., Kumar S., Kumar V., Kaur J., Arora S., Mahajan R.K.	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2018	20	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	-
151	Deciphering the complexation process of a fluoroquinolone antibiotic, levofloxacin, with bovine serum albumin in the presence of additives	Kaur A., Khan I.A., Banipal P.K., Banipal T.S.	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2018	6	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; School of Pharmaceutical Science and Technology, Tianjin University, Tianjin, 300072, China	-
152	Sodium deoxycholate mediated enhanced solubilization and stability of hydrophobic drug Clozapine in pluronic micelles	Singla P., Singh O., Chabba S., Aswal V.K., Mahajan R.K.	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2018	15	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	-
153	Fluorometric differential detection of Zn <sup>2+</sup> and Cu <sup>2+</sup> by picolylamine appended pyrimidinone-based receptor: Application in mimicking TRANSFER and INH logic gate	Singh P., Singh H., Sharma R., Dhawan S., Singh P., Bhargava G., Kumar S.	Journal of Photochemistry and Photobiology A: Chemistry	2018	8	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	-



154	Synthesis, characterization and anticancer evaluation of transplatin derivatives with heterocyclic thiones	Jomaa M.Y., Altaf M., Ahmad S., Alhoshani A., Baig N., Kawde A.-N., Bhatia G., Singh J., Isab A.A.	Polyhedron	2018	6	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	-
155	Analysis of diseases in fruits using image processing techniques	Kaur K., Marwaha C.	Proceedings - International Conference on Trends in Electronics and Informatics, ICEI 2017	2018	3	Department of Computer Engg. and Technology, Guru Nanak Dev University, Amritsar, 143001, India	-
156	Transition-Metal-Catalyzed [3+2+2] Cycloaddition Reactions	Kuila B., Kaur M., Singh P., Bhargava G.	European Journal of Organic Chemistry	2018	6	Department of Chemical Sciences, IKG Punjab Technical University, Kapurthala, Punjab 144603, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
157	Advanced VANET information dissemination scheme using Fuzzy logic	Singh J., Singh K.	2018 IEEE 8th Annual Computing and Communication Workshop and Conference, CCWC 2018	2018	2	CSE Department, Guru Nanak Dev University, Amritsar, Punjab, India	-
158	Dust Ion-Acoustic Shock Waves in a Multicomponent Magnetorotating Plasma	Kaur B., Saini N.S.	Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences	2018	4	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
159	A simultaneous all-optical half/full-subtraction strategy using cascaded highly nonlinear fibers	Singh K., Kaur G., Singh M.L.	Journal of Modern Optics	2018	3	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; Department of Electronics & Communication Engineering, Punjabi University, Patiala, India	-
160	Conductivity relaxation in Pb <sub>0.9</sub> Sm <sub>0.1</sub> Zr <sub>0.405</sub> Ti <sub>0.495</sub> Fe <sub>0.1003</sub> solid solution	Kaur R., Sharma V., Kumar M., Singh M., Singh A.	Journal of Alloys and Compounds	2018	7	Multifunctional Materials Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; DAV College, Department of Physics, Abohar, Punjab 152116, India	-
161	Empowering Transition-Metal-Free Cascade Protocol for the Green Synthesis of Biaryls and Alkynes	Walia P.K., Kumar M., Bhalla V.	ACS Omega	2018	6	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
162	Bioremediation and detoxification of industrial wastes by earthworms: Vermicompost as powerful crop nutrient in sustainable agriculture	Bhat S.A., Singh S., Singh J., Kumar S., Bhawana, Vig A.P.	Bioresource Technology	2018	45	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	-
163	Eco-friendly method for the extraction of earthworms: Comparative account of formalin, AITC and Allium cepa as extractant	Singh J., Singh S., Bhat S.A., Vig A.P., Schädler M.	Applied Soil Ecology	2018	3	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	-
164	Evaluation of benzyl-butyl phthalate induced germination and early growth vulnerability to barley seedlings ( <i>Hordeum vulgare</i> L.)	Kumari A., Kaur R.	Indian Journal of Ecology	2018	3	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143 005, India	-
165	Dynamics of electoral process of 2017 assembly elections in Punjab	Sekhon J.S., Sharma S.	Journal of Sikh and Punjab Studies	2018	-	Guru Nanak Dev University, Amritsar, India	-
166	Supramolecular Chemistry: From Molecule to Molecular Machines	Bhalla V.	Resonance	2018	1	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, India	-
167	Effect of polarization force on head-on collision between multi-solitons in dusty plasma	Singh K., Sethi P., Saini N.S.	Physics of Plasmas	2018	8	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-



168	Investigating the influence of electrode Miller indices alteration on electronic transport in thiophene-based molecular junctions	Kaur R., Narang S.B., Randhawa D.K.K.	Journal of Molecular Modeling	2018	-	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	-
169	Nurturing a garden of IT talent at MindTree Limited	Kang L.S., Kaur N.	Global Business and Organizational Excellence	2018	1	Department of Commerce, Guru Nanak Dev University, Amritsar, India	-
170	Modeling the Elements and Effects of Global Viral Advertising Content: A Cross-cultural Framework	Sharma R.R., Kaur B.	Vision	2018	1	Department of Business Management, Guru Nanak Dev University Regional Campus, Gurdaspur, Punjab, India; University Business School, Guru Nanak Dev University, Amritsar, Punjab, India	-
171	CE-GMS: A cloud IoT-enabled grocery management system	Kaur J., Kaur P.D.	Electronic Commerce Research and Applications	2018	6	Computer Science, GNDU Regional Campus, Jalandhar, India	-
172	Effect of decreasing Mg <sup>2+</sup> and Zr <sup>4+</sup> substitution on the structural, ferroelectric and magnetic properties of BF-PT solid solutions	Chawla A., Singh A., Singh M.	Materials Today Communications	2018	5	Multifunctional Material Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
173	2-(4-Amino-2-hydroxyphenyl) benzothiazole based Schiff- base: Complexation/decomplexation driven photo physical tuning of fluorescence leading to Cu <sup>2+</sup> and PO <sub>4</sub> <sup>3-</sup> detection	Kaur I., Kaur P., Singh K.	Sensors and Actuators, B: Chemical	2018	18	Department of Chemistry, UGC-Centre of Advanced Study-II, Guru Nanak Dev University, Amritsar, 143005, India	-
174	Soil amendments: a tool to reduce heavy metal uptake in crops for production of safe food	Sharma A., Nagpal A.K.	Reviews in Environmental Science and Biotechnology	2018	12	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India	-
175	Investigation of gamma ray shielding, structural and dissolution rate properties of Bi <sub>2</sub> O <sub>3</sub> -BaO-B <sub>2</sub> O <sub>3</sub> -Na <sub>2</sub> O glass system	Dogra M., Singh K.J., Kaur K., Anand V., Kaur P., Singh P., Bajwa B.S.	Radiation Physics and Chemistry	2018	12	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
176	In Vitro Evaluation and Statistical Optimization of Antimicrobial Activity of Prunus cerasoides Stem Bark	Arora D.S., Mahajan H.	Applied Biochemistry and Biotechnology	2018	6	Microbial Technology Laboratory, Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India	-
177	Influence of germination period on physicochemical, pasting and antioxidant properties of Indian wheat cultivars	Karwasra B.L., Gill B.S., Kaur M., Kaur H.	Journal of Food Measurement and Characterization	2018	3	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	-
178	Identity based secure authentication scheme based on quantum key distribution for cloud computing	Sharma G., Kalra S.	Peer-to-Peer Networking and Applications	2018	11	Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India	-
179	Bioassay guided fractionation and in vitro anti-plasmodial activity of ficus deltoidea and ficus benjamina	Mukhtar H.M., Singh A., Kaur H.	Pharmacognosy Journal	2018	1	S.B.S. College of Pharmacy, Patti, Tarn Taran, Punjab, India; Faculty of Pharmaceutical Sciences, IKG Punjab Technical University Punjab, India; PG Department of Chemistry, Khalsa College, Amritsar, Punjab, India	-
180	Estimation of indoor radon, thoron and their decay products' concentrations along with annual inhalation dose in dwellings of Punjab, India	Saini K., Sahoo B.K., Bajwa B.S.	Indoor and Built Environment	2018	4	Department of Physics, Guru Nanak Dev University, Amritsar, India; Radiological Physics and Advisory Division, Bhabha Atomic Research Centre, Mumbai, India	-
181	The HLA-G 14 bp insertion/deletion polymorphism and its association with soluble HLA-G levels in women with recurrent miscarriages	Kalotra V., Lall M., Verma I.C., Kaur A., Kaur A.	HLA	2018	6	Department of Human Genetics, Guru Nanak Dev University, Amritsar, India; Institute of Medical Genetics and Genomics, Sir Ganga Ram Hospital, New Delhi, India	-
182	Colorimetric metal ion sensors – A comprehensive review of the years 2011–2016	Kaur B., Kaur N., Kumar S.	Coordination Chemistry Reviews	2018	140	Panjab University, Chandigarh, Punjab, India; Guru Nanak Dev University Punjab, India	-



183	Modification of starch using low pressure radio frequency air plasma	Banura S., Thirumdas R., Kaur A., Deshmukh R.R., Annappure U.S.	LWT - Food Science and Technology	2018	12	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	-
184	Electrical relaxation and conduction mechanisms in iron doped barium strontium titanate	Kaur A., Singh L., Asokan K.	Ceramics International	2018	7	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Inter- University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India	-
185	Role of earthworms in phytoremediation of cadmium (Cd) by modulating the antioxidative potential of <i>Brassica juncea</i> L.	Kaur P., Bali S., Sharma A., Vig A.P., Bhardwaj R.	Applied Soil Ecology	2018	15	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botany, DAV University Sarmastpur, Jalandhar, 144012, India	-
186	L-Theanine: An astounding sui generis integrant in tea	Sharma E., Joshi R., Gulati A.	Food Chemistry	2018	22	CSIR-Institute of Himalayan Bioresource Technology, Palampur, Himachal Pradesh, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India	-
187	Transverse electromagnetic Hermite-Gaussian mode-driven direct laser acceleration of electron under the influence of axial magnetic field	Ghotra H.S., Jaroszynski D., Ersfeld B., Saini N.S., Yoffe S., Kant N.	Laser and Particle Beams	2018	7	Department of Physics, Lovely Professional University, G. T. Road, Phagwara, Punjab 144411, India; Scottish Universities Physics Alliance (SUPA), University of Strathclyde, Glasgow, G4 0NG, United Kingdom; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
188	Acetylenic Ester Promoted Tandem Ring Opening of Dienyl Thiazolidin-4-ones and Cyclizations: A Facile and Chemoselective Synthesis of Functionalized Pyridine-2- carboxylates	Kuila B., Kumar K., Mahajan D., Singh P., Bhargava G.	Synlett	2018	1	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	-
189	Sonochemical synthesis, characterization, thermal and semiconducting behavior of nano-sized azidopentaamminecobalt(III) complexes containing anion, CrO <sub>4</sub> <sup>2-</sup> or Cr <sub>2</sub> O <sub>7</sub> <sup>2-</sup>	Bala R., Behal J., Shah N.A., Rathod K.N., Prakash V., Khunt R.C.	Ultrasonics Sonochemistry	2018	1	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	-
190	Nanosystems for drug delivery of coenzyme Q10	Paroha S., Chandel A.K.S., Dubey R.D.	Environmental Chemistry Letters	2018	5	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	-
191	Castasterone and Citric Acid Supplementation Alleviates Cadmium Toxicity by Modifying Antioxidants and Organic Acids in <i>Brassica juncea</i>	Kaur R., Yadav P., Thukral A.K., Sharma A., Bhardwaj R., Alyemeni M.N., Wijaya L., Ahmad P.	Journal of Plant Growth Regulation	2018	12	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	-
192	Semiclassical triton	Dwivedi N.R., Kaur H., Jain S.R.	European Physical Journal A	2018	1	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	-
193	Optimized reduction of graphite oxide for highly exfoliated silver nanoparticles anchored graphene sheets for dye sensitized solar cell applications	Kumar S., Singh R., Mahajan A., Bedi R.K., Saxena V., Aswal D.K.	Electrochimica Acta	2018	3	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	-
194	Expression of catalytically efficient xylanases from thermophilic fungus <i>Malbranchea cinnamomea</i> for synergistically enhancing hydrolysis of lignocelluloses	Basotra N., Joshi S., Satyanarayana T., Pati P.K., Tsang A., Chadha B.S.	International Journal of Biological Macromolecules	2018	7	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	-



195	Jasmonic acid-induced tolerance to root-knot nematodes in tomato plants through altered photosynthetic and antioxidative defense mechanisms	Bali S., Kaur P., Sharma A., Ohri P., Bhardwaj R., Alyemeni M.N., Wijaya L., Ahmad P.	Protoplasma	2018	13	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	-
196	Structural, Morphological, Thermal, and Pasting Properties of Starches From Diverse Indian Potato Cultivars	Singh N., Kaur A., Shevkani K., Ezekiel R., Kaur P., Isono N., Noda T.	Starch/Staerke	2018	13	Department of Food Science and Technology, Guru Nanak Dev University Amritsar 143005, India; Central University of Punjab, Centre for Applied Agriculture Bathinda 151001, India; Central Potato Research Institute Shimla, India; Graduate School of Bioresources, Mie University, Tsu, Mie 514-8507, Japan; NARO Hokkaido Agricultural Research Center (NARO/HARC), Memuro, Hokkaido 082-0081, Japan	-
197	Selenium mitigates cadmium-induced oxidative stress in tomato ( <i>Solanum lycopersicum</i> L.) plants by modulating chlorophyll fluorescence, osmolyte accumulation, and antioxidant system	Alyemeni M.N., Ahanger M.A., Wijaya L., Alam P., Bhardwaj R., Ahmad P.	Protoplasma	2018	47	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	-
198	Mercurius solubilis attenuates scopolamine-induced memory deficits and enhances the motor coordination in mice	Kaur S., Kaur A., Singh G., Bhatti R.	International Journal of Neuroscience	2018	4	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India	-
199	Phenolic compounds as antioxidants and chemopreventive drugs from <i>Streptomyces cellulosa</i> strain TES17 isolated from rhizosphere of <i>Camellia sinensis</i>	Rani R., Arora S., Kaur J., Manhas R.K.	BMC Complementary and Alternative Medicine	2018	7	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	-
200	What determines the disclosure of managerial remuneration in India?	Kang L.S., Nanda P.	Journal of Financial Reporting and Accounting	2018	2	Department of Commerce, Guru Nanak Dev University, Amritsar, India	-
201	Establishment of LCMS Based Platform for Discovery of Quorum Sensing Inhibitors: Signal Detection in <i>Pseudomonas aeruginosa</i> PAO1	Kushwaha M., Jain S.K., Sharma N., Abrol V., Jaglan S., Vishwakarma R.A.	ACS Chemical Biology	2018	1	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	-
202	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	Kalia N., Kaur M., Sharma S., Singh J.	Frontiers in Cellular and Infection Microbiology	2018	7	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	-
203	From Dual to Discriminatory Sensing of CN-/F-Using Isomeric Molecules and Ascertained by Spectroscopic and DFT Methods	Sharma S., Singh Sran B., Singh N., Hundal G.	ChemistrySelect	2018	3	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	-
204	Analysis of workspace awareness tools in distributed software development	Kaur I., Kaur P., Singh H.	ICCT 2017 - International Conference on Intelligent Communication and Computational Techniques	2018	1	Dept. of Computer Science, Guru Nanak Dev University, Amritsar, India	-



205	Cu(II) ion based 1D coordination polymer: Its thermal, fluorescence properties, Hirshfeld surface analysis and theoretical calculations	Arora M., Jassal A.K., Chawla S.K., Mudsainiyan R.K.	Molecular Crystals and Liquid Crystals	2018	1	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	-
206	Pyrimidine-chloroquinoline hybrids: Synthesis and antiparasitic activity	Chopra R., Chibale K., Singh K.	European Journal of Medicinal Chemistry	2018	16	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	-
207	Helical modes generate antimagnetic rotational spectra in nuclei	Malik S.S.	Physical Review C	2018	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
208	Supramolecular modification of Carbon Nanofibers with Poly(diallyl dimethylammonium) chloride and Triton X-100 for electrochemical application	Kaur P., Shin M.-S., Park J.-S., Verma G., Sekhon S.S.	International Journal of Hydrogen Energy	2018	4	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	-
209	Effect of Ion Beam on Dust-Acoustic Waves under Transverse Perturbations in Dusty Plasma	Kohli R., Kaur N., Singh M., Saini N.S.	IEEE Transactions on Plasma Science	2018	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Applied Sciences, Khalsa College of Engineering and Technology, Amritsar, 143001, India	-
210	Urban Development and Urbanisation in the Two Frontier Regions of India	Sandhu R.S.	Sociological Bulletin	2018	-	Department of Sociology, Guru Nanak Dev University, Amritsar, Punjab, India	-
211	Pharmacognostic standardizations of traditionally used hepatoprotective plant <i>fraxinus micrantha</i>	Singh H., Kaur S., Arora S., Singh B.	International Journal of Green Pharmacy	2018	1	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	-
212	Nitrioltriacetic acid modified bamboo charcoal (NTA-MBC): An effective adsorbent for the removal of Cr (III) and Cr (VI) from aqueous solution	Saini S., Arora S., Kirandeep, Singh B.P., Katnoria J.K., Kaur I.	Journal of Environmental Chemical Engineering	2018	8	Department of Botanical and Environmental Sciences, Amritsar, Punjab, India; Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab, India	-
213	Managing QoS degradation of component web services in a dynamic environment	Kahlon N.K., Chahal K.K., Narang S.B.	International Journal on Semantic Web and Information Systems	2018	-	Department of Computer Science, Guru Nanak Dev University, Amritsar, India	-
214	Effect of Ion Beam on Low-Frequency Cnoidal Waves in a Non-Maxwellian Dusty Plasma	Kaur N., Singh M., Kohli R., Saini N.S.	IEEE Transactions on Plasma Science	2018	5	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
215	Magnetosonic cnoidal waves and solitons in a magnetized dusty plasma	Kaur N., Singh M., Saini N.S.	Physics of Plasmas	2018	7	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
216	Adsorption and dissociation of sulfur-based toxic gas molecules on silicene nanoribbons: a quest for high-performance gas sensors and catalysts	Walia G.K., Randhawa D.K.K.	Journal of Molecular Modeling	2018	8	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Ladhewali Road, Jalandhar, Punjab 144007, India	-
217	Ab initio scrutiny of endohedral C20 fullerenes implanted in between gold electrodes	Kaur M., Sawhney R.S., Engles D.	Journal of Molecular Modeling	2018	1	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143001, India	-
218	Modulatory role of GSTT1 and GSTM1 in Punjabi agricultural workers exposed to pesticides	Ahluwalia M., Kaur A.	Environmental Science and Pollution Research	2018	5	Department of Human Genetics, Guru Nanak Dev University, Amritsar, India	-





219	Effect of sodium chloride on the interactions of ciprofloxacin hydrochloride with sodium dodecyl sulfate and hexadecyl trimethyl ammonium bromide: Conductometric and spectroscopic approach	Banipal T.S., Kaur R., Banipal P.K.	Journal of Molecular Liquids	2018	9	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
220	Microwave absorption behavior and electromagnetic properties of Ni-Zr doped La-Sr hexagonal ferrite synthesized by auto-combustion method	Kaur P., Bahel S., Narang S.B.	Materials Research Bulletin	2018	9	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	-
221	First-principles investigation on defect-induced silicone nanoribbons — A superior media for sensing NH <sub>3</sub> NO <sub>2</sub> and NO gas molecules	Walia G.K., Randhawa D.K.K.	Surface Science	2018	11	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, 144007, India	-
222	Sensitive and selective acetone sensor based on Gd doped WO <sub>3</sub> /reduced graphene oxide nanocomposite	Kaur J., Anand K., Kaur A., Singh R.C.	Sensors and Actuators, B: Chemical	2018	34	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
223	Spermidine induced aggregation of terphenyl derivative: An efficient probe for detection of spermidine in living cells	Tejpal R., Kumar M., Bhalla V.	Sensors and Actuators, B: Chemical	2018	7	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, India	-
224	Smart fluorescent AIEE active supramolecular polymeric assemblies for selective and quantitative detection of fluoride ions in aqueous media	Deol H., Kumar M., Bhalla V.	Sensors and Actuators, B: Chemical	2018	12	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, India	-
225	A Fog-Based Healthcare Framework for Chikungunya	Sood S.K., Mahajan I.	IEEE Internet of Things Journal	2018	32	Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus, Gurdaspur, 143521, India	-
226	Effect of Nonthermal Electrons and Ions on Longitudinal Dust Acoustic Solitary Waves in a Strongly Coupled Dusty Plasma	Ghai Y., Saini N.S., Singh M.	IEEE Transactions on Plasma Science	2018	1	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
227	Pharmacognostic standardization and high-performance thin- layer chromatography fingerprinting of ficus infectoria leaves	Singh A., Singh V., Mehta M., Mahajan S., Satija S.	International Journal of Green Pharmacy	2018	-	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	-
228	Pharmacognostic and pharmacological screening of Psidium guajava stem extract for its analgesic potential	Mehta M., Kalsi V., Sharma N., Khurana N., Duggal N., Khatik G.L., Singh D., Mahajan S., Singh A., Satija S., Gupta R., Verma S.	International Journal of Green Pharmacy	2018	1	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	-
229	Chromatographic fingerprinting, antioxidant, and anti- inflammatory potential of Dioscorea villosa (Wild Yam) leaves	Satija S., Prince, Gupta R., Mahajan S., Sharma N., Khurana N., Kalsi V., Duggal N., Singh A., Mehta M.	International Journal of Green Pharmacy	2018	1	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	-
230	Nanoencapsulation of docosahexanoic acid (DHA) using combination of food grade polymeric wall materials and its application for improvement in bioavailability and oxidative stability	Singh H., Kumar C., Singh N., Paul S., Jain S.K.	Food and Function	2018	9	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	-
231	Dentin dysplasia type I - Clinical management dilemmas: A case report of first-generation sufferers	Grewal N., Gumber S., Kaur A., Kaur N.	Journal of Indian Society of Pedodontics and Preventive Dentistry	2018	2	Department of Pedodontics and Preventive Dentistry, GDC, S. S. S. Chowk, Amritsar, Punjab, 143 001, India; Department of Genetics, Guru Nanak Dev University, Amritsar, Punjab, India	-



232	Organic cultivation of ashwagandha with improved biomass and high content of active withanolides: Use of vermicompost	Kaur A., Singh B., Ohri P., Wang J., Wadhwa R., Kaul S.C., Pati P.K., Kaur A.	PLoS ONE	2018	9	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	-
233	Evaluation of micellar properties of sodium dodecylbenzene sulphonate in the presence of some salts	Sood A.K., Aggarwal M.	Journal of Chemical Sciences	2018	6	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143 005, India; Department of Mathematics, DAV College, Amritsar, Punjab 143 001, India	-
234	Diversity in protein profiling, pasting, empirical and dynamic dough rheological properties of meal from different durum wheat accessions	Katyal M., Virdi A.S., Singh N., Kaur A., Rana J.C., Kumari J.	Journal of Food Science and Technology	2018	9	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	-
235	Effect of incorporation of flaxseed to wheat rusks: Antioxidant, nutritional, sensory characteristics, and in vitro DNA damage protection activity	Kaur R., Kaur M., Purewal S.S.	Journal of Food Processing and Preservation	2018	5	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Biotechnology, Chaudhary Devi Lal University, Sirsa, Haryana, India	-
236	Association of PGC-1 $\alpha$ gene with type 2 diabetes in three unrelated endogamous groups of North-West India (Punjab): a case-control and meta-analysis study	Sharma R., Matharoo K., Kapoor R., Bhanwer A.J.S.	Molecular Genetics and Genomics	2018	3	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India; Heart Station and Diabetes Clinic, Amritsar, India	-
237	Dependence of thermal sensitivity of LPPFG on waveguide and material parameters	Prashar S., Engles D., Malik S.S.	Photonic Network Communications	2018	2	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	-
238	Effect of fermentation on chemical changes in Vitis vinifera fruits used in alcoholic ayurvedic formulation	Gill G.K., Singh A., Lal U.R., Kaur H., Mehta M., Satija S., Mahajan S.	International Journal of Green Pharmacy	2018	2	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	-
239	Pharmacognostic and pharmacological screening of Ageratum conyzoides stem extract for its antianxiety potential	Satija S., Kamboj S., Kaur J., Ripdaman, Vyas M., Mehta M.	International Journal of Green Pharmacy	2018	-	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Health Care Aid, St. Boniface Hospital, 409 Tache Avenue, Winnipeg, Canada; Department of Pharmaceutical Sciences, School of Pharmaceutical Sciences, Lovely Professional University, Phagwara, Punjab 144 411, India	-
240	Pharmacognostic investigations and phytochemical screening of Argyreia speciosa Linn	Kaur J., Singh R., Mehta M., Singh B., Kaur S.	International Journal of Green Pharmacy	2018	-	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	-
241	Effect of electron temperature on small-amplitude electron acoustic solitary waves in non-planar geometry	Bansal S., Aggarwal M., Gill T.S.	Journal of Astrophysics and Astronomy	2018	6	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	-
242	Ferrocenylchalcone-uracil conjugates: synthesis and cytotoxic evaluation	Singh A., Mehra V., Sadeghiani N., Mozaffari S., Parang K., Kumar V.	Medicinal Chemistry Research	2018	3	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	-
243	Morphological and anatomical studies of stem of Ageratum conyzoides	Satija S., Kamboj S., Kaur J., Mahajan S., Neeta, Sharma N., Khurana N., Vyas M., Mehta M.	International Journal of Green Pharmacy	2018	1	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	-



244	Assessment of radon concentration and heavy metal contamination in groundwater of Udhampur district, Jammu & Kashmir, India	Kumar A., Sharma S., Mehra R., Kanwar P., Mishra R., Kaur I.	Environmental Geochemistry and Health	2018	13	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	-
245	What and how to communicate about a corporate brand with the consumers: An exploratory study	Mann B.J.S., Ghuman M.K.	Journal of Marketing Communications	2018	5	University Business School, Guru Nanak Dev University, Amritsar, India	-
246	Automated blast disease detection from paddy plant leaf - A color slicing approach	Singh A., Singh M.L.	2018 7th International Conference on Industrial Technology and Management, ICITM 2018	2018	3	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	-
247	Zinc phthalocyanine nanowires based flexible sensor for room temperature Cl <sub>2</sub> detection	Devi P., Saini R., Singh R., Mahajan A., Bedi R.K., Aswal D.K., Debnath A.K.	AIP Conference Proceedings	2018	-	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	-
248	Investigation of structural and multiferroic properties of highly tetragonally distorted BMZF-PT solid solutions	Aanchal A., Singh L., Singh A., Singh M.	AIP Conference Proceedings	2018	-	Multifunctional Material Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
249	Synthesis and transport characterization of electrochemically deposited CdTe nanowires	Kaur J., Kaur H., Singh R.C.	AIP Conference Proceedings	2018	1	Department of Physics, Guru Nanak Dev University, Amritsar, India	-
250	Hydrogen adsorption properties based on holey graphene sheets	Kaur A., Kaur J., Hastir A., Virpal V., Singh R.C.	AIP Conference Proceedings	2018		Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
251	Effect of molybdenum on gamma ray shielding and structural properties of PbO-B <sub>2</sub> O <sub>3</sub> glasses	Dogra M., Singh K.J., Kaur K.	AIP Conference Proceedings	2018	1	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
252	Tungsten disulfide nanoparticles anchored on reduced graphene oxide for dye sensitized solar cell applications	Kumar S., Prakash O., Mahajan A., Saxena V.	AIP Conference Proceedings	2018	-	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	-
253	Structural and thermal properties of vanadium tellurite glasses	Kaur R., Kaur R., Khanna A., González F.	AIP Conference Proceedings	2018	4	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	-
254	Quadruple-signaling (PET, ICT, ESIPT, -C[dbnd]N- rotation) mechanism-based dual chemosensor for detection of Cu <sup>2+</sup> and Zn <sup>2+</sup> ions: TRANSFER, INH and complimentary OR/NOR logic circuits	Singh H., Bhargava G., Kumar S., Singh P.	Journal of Photochemistry and Photobiology A: Chemistry	2018	7	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	-
255	Cyclopalladation of azobenzenes and their reactivity towards N-substituted imidazolidine-2-thiones and allied ligands: Synthesis, structures, spectroscopy and ESI-mass studies	Sandhu A.K., Lobana T.S., Sran B.S., Hundal G., Jasinski J.P.	Journal of Organometallic Chemistry	2018	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemistry, Keene State College, Keene, NH 03435-2001, United States	-
256	AIEE Active Donor-Acceptor-Donor-Based Hexaphenylbenzene Probe for Recognition of Aliphatic and Aromatic Amines	Pramanik S., Deol H., Bhalla V., Kumar M.	ACS Applied Materials and Interfaces	2018	17	Department of Chemistry, UGC Sponsored Centre for Advanced Studies, II Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-



257	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	Kaur P., Singh K.J., Yadav A.K., Sood H., Kaur R., Arora D.S.	Biomedical Physics and Engineering Express	2018	3	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	-
258	Anti-biofilm properties of the fecal probiotic Lactobacilli against Vibrio spp	Kaur S., Sharma P., Kalia N., Singh J., Kaur S.	Frontiers in Cellular and Infection Microbiology	2018	20	Department of Microbiology, Guru Nanak Dev University, Amritsar, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, India	-
259	Size-tunable photoluminescence from WS <sub>2</sub> nanostructures	Sharma S., Singh J., Bhagat S., Singh M., Sharma S.	Materials Research Express	2018	2	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
260	Myxobacteria: Producers of enormous bioactive secondary metabolites	Kaur R., Kumari A., Kaur R., Kaur R.	International Journal of Research in Pharmaceutical Sciences	2018	1	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	-
261	Negative differential resistance observation in complex convoluted fullerene junctions	Kaur M., Sawhney R.S., Engles D.	Journal of Applied Physics	2018	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, 143001, India	-
262	Machine learning configurations for human protein classification using SDFES	Sharma S., Singh A., Singh G., Singh R.	Journal of Theoretical and Applied Information Technology	2018	-	DCS, Guru Nanak Dev University, Amritsar, Punjab 143001, India	-
263	Multi objective integrated crossover based particle swarm optimization for load balancing in cloud data centers	Sethi N., Singh S., Singh G.	Journal of Theoretical and Applied Information Technology	2018	-	Department of Computer Application, IKGPTU, Jalandhar, India; Department of Computer Science and Engineering, GNDU, Amritsar, India	-
264	Teaching graphical simulations of Fourier series expansion of some periodic waves using spreadsheets	Singh I., Kaur B.	Physics Education	2018	3	P.G. Department of Physics, Khalsa College, Amritsar, 143001, India; School of Mathematics, Thapar University, Patiala, 147004, India	-
265	To investigate the relation between pore size and twist angle in enhanced thermoelectric efficient porous armchair graphene nanoribbons	Kaur S., Randhawa D.K.K., Narang S.B.	Materials Research Express	2018	-	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	-
266	Evaluation of antibacterial potential of Ficus species	Bhawana, Robin, Kaur J., Vig A.P., Arora S., Kaur R.	Journal of Pharmaceutical Sciences and Research	2018	1	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
267	Envisaging quantum transport phenomenon in a muddled base pair of DNA	Vohra R., Sawhney R.S.	Pramana - Journal of Physics	2018	3	Guru Nanak Dev University, Amritsar, 143 001, India	-
268	Microstructural, physicochemical, antioxidant, textural and quality characteristics of wheat muffins as influenced by partial replacement with ground flaxseed	Kaur R., Kaur M.	LWT - Food Science and Technology	2018	9	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	-
269	Comparative study of structural and functional characterization of bran protein concentrates from superfine, fine and coarse rice cultivars	Singh T.P., Sogi D.S.	International Journal of Biological Macromolecules	2018	12	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143 005, India	-
270	HEMT based 6T static random access memory cell design for high speed applications	Raj B., Narang S.B.	Journal of Computational and Theoretical Nanoscience	2018	-	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	-
271	Pharmacognostic profile of trigonella corniculata L. Seeds and effect of its aqueous extract on growth inhibition of cancer cells	Kaur P., Kataria S.K., Singh B., Arora S.	Research Journal of Pharmacy and Technology	2018	-	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	-



272	Spectrophotometric determination of triclosan based on diazotization reaction: Response surface optimization using box-behnken design	Kaur I., Gaba S., Kaur S., Kumar R., Chawla J.	Water Science and Technology	2018	5	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	-
273	Assessment of the efficiency of U-tube continuous bioreactor and immobilized enzyme beads for dye decolourization	Sharma R.K., Sharma R., Arora D.S.	3 Biotech	2018	-	Department of Biosciences, Manipal University, Jaipur, Rajasthan 303007, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India	-
274	Citation analysis of theses in economics submitted to punjabi university, Patiala during 2000-2014	Kaur A., Rattan G.K.	DESIDOC Journal of Library and Information Technology	2018	1	Department of Library and Information Science, Guru Nanak Dev University, Amritsar, 143 005, India; Bhai Kahn Singh Nabha Library, Punjabi University, Patiala, India	-
275	Enhancement of sensor response of as fabricated SWCNT sensor with gold decorated nanoparticles	Lone M.Y., Kumar A., Ansari N., Husain S., Zulfequar M., Singh R.C., Husain M.	Sensors and Actuators, A: Physical	2018	2	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	-
276	Extraction, profiling and bioactivity analysis of volatile glucosinolates present in oil extract of Brassica juncea var. raya	Bassan P., Bhushan S., Kaur T., Arora R., Arora S., Vig A.P.	Physiology and Molecular Biology of Plants	2018	6	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	-
277	Structural, optical and photoelectrical properties of thermally annealed amorphous In <sub>1.5</sub> Sb <sub>1.5</sub> Se <sub>70</sub> chalcogenide films	Sharma S., Sharma R., Kumar P., Thangaraj R., Asokan K., Mian M.	Applied Physics A: Materials Science and Processing	2018	3	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	-
278	Purple head broccoli (Brassica oleracea L. var. italica Plenck), a functional food crop for antioxidant and anticancer potential	Chaudhary A., Choudhary S., Sharma U., Vig A.P., Singh B., Arora S.	Journal of Food Science and Technology	2018	4	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	-
279	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	Kaur L., Singh K., Paul S., Singh S., Singh S., Jain S.K.	AAPS PharmSciTech	2018	17	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	-
280	Gene encoding vesicle-associated membrane protein- associated protein from Triticum aestivum (TaVAP) confers tolerance to drought stress	Singh B., Khurana P., Khurana J.P., Singh P.	Cell Stress and Chaperones	2018	2	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	-
281	A cybersecurity framework to identify malicious edge device in fog computing and cloud-of-things environments	Sohal A.S., Sandhu R., Sood S.K., Chang V.	Computers and Security	2018	69	Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India; Department of Computer Science and Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University Punjab, India; IBSS, Xi'an Jiaotong-Liverpool University, Suzhou, China	-
282	High efficiency in vitro plant regeneration and secondary metabolite quantification from leaf explants of rhodiola imbricate	Bhardwaj A.K., Naryal A., Bhardwaj P., Warghat A.R., Arora B., Dhiman S., Saxena S., Pati P.K., Chaurasia O.P.	Pharmacognosy Journal	2018	2	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	-



283	Differential biochemical responses of Brassica Juncea to cadmium stress: Antioxidative defence system, photosynthesis and polyphenol synthesis	Kapoor D., Bhat A.A., Bhardwaj R., Kaur S., Anand R.	Pollution Research	2018	1	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	-
284	Interaction of 24-epibrassinolide and salicylic acid regulates pigment contents, antioxidative defense responses, and gene expression in Brassica juncea L. seedlings under Pb stress	Kohli S.K., Handa N., Sharma A., Gautam V., Arora S., Bhardwaj R., Wijaya L., Alyemeni M.N., Ahmad P.	Environmental Science and Pollution Research	2018	22	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	-
285	Alkylated/aminated nitroimidazoles and nitroimidazole-7-chloroquinoline conjugates: Synthesis and anti-mycobacterial evaluation	Shalini, Viljoen A., Kremer L., Kumar V.	Bioorganic and Medicinal Chemistry Letters	2018	7	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	-
286	Assessment of microbial contamination in indoor air of private maternity homes in Moga, Punjab	Kumar H., Kaur A., Kaur B., Gupta R.K., Dhanjal D.S., Kaur A., Zahoor U., Palaha R.	Journal of Clinical and Diagnostic Research	2018	-	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	-
287	Seasonal variation of mitochondria activity related and heat shock protein genes in spermatozoa of Karan Fries bulls in tropical climate	Soren S., Vir Singh S., Singh P.	Biological Rhythm Research	2018	5	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	-
288	Characteristic study of cold sprayed N06601 superalloy surface	Singh H., Khosla H., Walia G.S., Sidhu T.S., Kalsi S.B.S., Karthikeyan J.	Surface Engineering	2018	7	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	-
289	Evaluation of the gamma radiation shielding parameters of bismuth modified quaternary glass system	Kaur P., Singh K.J., Thakur S.	AIP Conference Proceedings	2018	5	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, Guru Nanak Dev University, College Verka, Amritsar, Punjab, 143501, India	-
290	Investigation of phase segregation using Rietveld refinement in Mg doped BaTiO <sub>3</sub> solid solutions and their ferroelectric properties	Aanchal, Kaur K., Singh A., Singh M.	AIP Conference Proceedings	2018	-	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	-
291	Investigation of the effect of doping of Cr <sub>2</sub> O <sub>3</sub> on bioactivity properties of the SiO <sub>2</sub> -CaO-P <sub>2</sub> O <sub>5</sub> bioceramics	Sarin N., Singh K.J., Kaur K., Anand V., Kaur R., Singh J.	AIP Conference Proceedings	2018	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India	-
292	Luminescence in 2-dimensional WS <sub>2</sub> nanosheets	Sherma S., Bhagat S., Singh J., Singh R.C., Sharma S.	AIP Conference Proceedings	2018	1	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
293	Structural and magnetically enhanced ferroelectric properties of Nd <sup>3+</sup> and Fe <sup>3+</sup> substituted Pb(Zr <sub>0.45</sub> Ti <sub>0.55</sub> )O <sub>3</sub> ceramics	Kaur R., Singh A.	AIP Conference Proceedings	2018	-	Multifunctional Materials Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
294	Induced dipole-dipole coupling between two atoms at a migration resonance	Kaur M., Mian M.	AIP Conference Proceedings	2018	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
295	Doping induced changes in structural and optical properties of $\alpha$ -Fe <sub>2</sub> O <sub>3</sub>	Singh J., Sherma S., Bhagat S., Sharma S., Singh R.C.	AIP Conference Proceedings	2018	1	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-



296	Synthesis and characterization of structural and magnetic properties of polyaniline-cobalt ferrite (PA-CoFe) nanocomposites	Thakur S., Kaur P., Singh L.	AIP Conference Proceedings	2018	-	Department of Physics, Guru Nanak Dev University, College Verka, Amritsar, Punjab, 143501, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
297	Structural and optical properties of Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -CdO-Na <sub>2</sub> O glass system for gamma ray shielding applications	Dogra M., Singh K.J., Kaur K.	AIP Conference Proceedings	2018	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
298	Multiferroic properties in NdFeO <sub>3</sub> -PbTiO <sub>3</sub> solid solutions	Kumar S., Pal J., Kaur S., Agrawal P., Singh M., Singh A.	AIP Conference Proceedings	2018	-	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	-
299	Study of self-focusing of Non Gaussian laser beam in a plasma with density variation using moment theory approach	Pathak N., Kaur S., Singh S.	AIP Conference Proceedings	2018	2	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, Central University of Rajasthan, Ajmer, Kishangarh, 305817, India	-
300	Effect of Pb <sup>2+</sup> substitution at A-site on structural and magnetic properties of LaMnO <sub>3</sub>	Kumar S., Pal J., Kaur S., Agrawal P., Singh M., Singh A.	AIP Conference Proceedings	2018	-	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	-
301	Structural and magnetic characterization of Ti doped cobalt ferrite (CoFe <sub>2</sub> O <sub>4</sub> )	Pal J., Kumar S., Kaur R., Agrawal P., Singh M., Singh A.	AIP Conference Proceedings	2018	-	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	-
302	$\beta$ -Lactam-Synthon Interceded Diastereoselective Synthesis of 2-Azido- $\gamma$ -amino Alcohols with Subsequent Transformations to Functionally Enriched Heterocycles	Singh A., Sharma B., Sachdeva D., Mehra V., Singh P., Kumar V.	ChemistrySelect	2018	2	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	-
303	Structural and morphological study of chemically synthesized CdSe thin films	Agrawal P., Singh R., Sharma J., Sachdeva M., Singh A., Bhargava A.	AIP Conference Proceedings	2018	-	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 Dugar College, Bikaner, 334001, India	-
304	Molecular Interactions of Saccharides and Their Derivatives with Thiamine HCl and Pyridoxine HCl Vitamins in Aqueous Solutions: Calorimetric, Viscometric, and NMR Spectroscopic Studies	Sharma M., Banipal T.S., Banipal P.K.	Journal of Chemical and Engineering Data	2018	3	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
305	Evaluating the resource use efficiency of government colleges in Punjab (India): A data envelopment analysis	Kaur H., Bhalla G.S.	International Journal of Law and Management	2018	1	Department of Commerce, Guru Nanak Dev University, Amritsar, India	-
306	Corporate diversification and firm performance: an empirical investigation of causality	Bhatia A., Thakur A.	International Journal of Organizational Analysis	2018	8	Department of Commerce, Guru Nanak Dev University, Amritsar, India	-
307	Proteinaceous secretory metabolites of probiotic human commensal <i>Enterococcus hirae</i> 20c, <i>E. faecium</i> 12a and L12b as antiproliferative agents against cancer cell lines	Sharma P., Kaur S., Kaur R., Kaur M., Kaur S.	Frontiers in Microbiology	2018	7	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	-



308	Dynamic chirality in mass regions A=105 and A=130	Yavahchova M.S., Tonev D., De Angelis G., Petkov P., Goutev N., Bhowmik R.K., Singh R.P., Muralithar S., Madhavan N., Kumar R., Kumar Raju M., Kaur J., Mohanto G., Singh A., Kaur N., Garg R., Shukla A., Mateva R., Geleva E., Slavchev B., Brant S.	Journal of Physics: Conference Series	2018	1	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	-
309	Usage based upon reasons: the case of electronic banking services in India	Arora S., Sandhu S.	International Journal of Bank Marketing	2018	5	Guru Nanak Dev University, Amritsar, India	-
310	Stereoselective organocatalytic synthesis of $\gamma$ , $\gamma$ - disubstituted butenolides	Sharma V., Bhardwaj V.K., Chimni S.S.	ChemistrySelect	2018	1	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	-
311	Design and Synthesis of Aza-/Oxa Heterocycle-Based Conjugates as Novel Anti-Inflammatory Agents Targeting Cyclooxygenase-2	Kaur S., Kumari P., Singh G., Bhatti R., Singh P.	ACS Omega	2018	6	Department of Chemistry, Centre for Advanced Studies, Amritsar, 143005, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India	-
312	Synthesis and Preliminary Antimicrobial Analysis of Isatin-Ferrocene and Isatin-Ferrocenyl Chalcone Conjugates	Singh A., Fong G., Liu J., Wu Y.-H., Chang K., Park W., Kim J., Tam C., Cheng L.W., Land K.M., Kumar V.	ACS Omega	2018	12	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	-
313	Transport in a fullerene terminated aromatic molecular device	Kaur R.P., Engles D.	Journal of Science: Advanced Materials and Devices	2018	4	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	-
314	Impact of viral advertising on product promotion: An experimental study	Kaur B., Sharma R.R.	Indian Journal of Marketing	2018	1	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	-
315	Characteristics of white, yellow, purple corn accessions: phenolic profile, textural, rheological properties and muffin making potential	Trehan S., Singh N., Kaur A.	Journal of Food Science and Technology	2018	12	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
316	Reactive oxygen species dynamics in roots of salt sensitive and salt tolerant cultivars of rice	Saini S., Kaur N., Pati P.K.	Analytical Biochemistry	2018	11	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
317	Temperature dependent selective detection of hydrogen and acetone using Pd doped WO <sub>3</sub> /reduced graphene oxide nanocomposite	Kaur J., Anand K., Kohli N., Kaur A., Singh R.C.	Chemical Physics Letters	2018	8	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
318	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	Barna B., Badaruddoza, Kaur M., Bhanwer A.J.S.	Meta Gene	2018	-	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India	-
319	Characterization of interactions between $\beta$ -lactoglobulin with surface active ionic liquids in aqueous medium	Chabba S., Vashishat R., Mahajan R.K.	Journal of Molecular Liquids	2018	7	Department of Chemistry, UGC-Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India	-





320	Study of the structural and magnetic phase-transitions and multiferroic properties in BiFeO <sub>3</sub> -Ba <sub>0.95</sub> Ca <sub>0.05</sub> TiO <sub>3</sub> solid solutions	Pal J., Kumar S., Singh L., Singh M., Singh A.	Materials Research Bulletin	2018	6	Multifunctional Materials Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
321	Fog assisted-IoT enabled patient health monitoring in smart homes	Verma P., Sood S.K.	IEEE Internet of Things Journal	2018	106	Department of Computer Science and Engineering, Guru Nanak Dev University, Punjab, 143521, India	-
322	Cloud-centric IoT based disease diagnosis healthcare framework	Verma P., Sood S.K.	Journal of Parallel and Distributed Computing	2018	34	Department of Computer Science and Engineering, GNDU, Regional Campus, Gurdaspur (Punjab), India	-
323	Chemical characteristics of fine and coarse particles during wintertime over two urban cities in north India	Kumar S., Nath S., Bhatti M.S., Yadav S.	Aerosol and Air Quality Research	2018	5	School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, 110067, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143001, India	-
324	Relativistic effects on propagation of q-Gaussian laser beam in a rippled density plasma: Application of higher order corrections	Kaur M., Agarwal P.C., Kaur S., Gill T.S.	Laser and Particle Beams	2018	2	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Regional Institute of Education, Bhubaneswar, 751022, India	-
325	Short-range structure of barium tellurite glasses and its correlation with stress-optic response	Kaur A., Khanna A., Fábíán M.	Materials Research Express	2018	4	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Centre for Energy Research, Konkoly-Thege st. 29-33, Budapest, 1121, Hungary	-
326	Progression of conventional hepatic cell culture models to bioengineered HepG2 cells for evaluation of herbal bioactivities	Kaur P., Robin, Mehta R.G., Arora S., Singh B.	Biotechnology Letters	2018	2	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	-
327	Genetic association study from North India to analyze association of CYP19A1 and CYP17A1 with polycystic ovary syndrome	Kaur R., Kaur T., Kaur A.	Journal of Assisted Reproduction and Genetics	2018	7	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Hartej Hospital, Ranjit Avenue, Amritsar, Punjab 143001, India	-
328	Influence of frequency and temperature on dielectric and electrical properties of Ca-substituted barium iron niobate	Puri M., Narang S.B., Bahel S.	Ceramics International	2018	3	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	-
329	IoT-based cloud framework to control Ebola virus outbreak	Sareen S., Sood S.K., Gupta S.K.	Journal of Ambient Intelligence and Humanized Computing	2018	13	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	-
330	Molecular interactions of choline based ionic liquids with water at different temperatures: An experimental study	Panda S., Singh V., Islam N., Gardas R.L.	Journal of Molecular Liquids	2018	7	Department of Chemistry, Indian Institute of Technology Madras, Chennai, 600036, India; Department of Chemical and Materials Engineering, National Central University, Zhongli, 320, Taiwan; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	-
331	Significant enhancement in the propagation of cosh-Gaussian laser beam in a relativistic-ponderomotive plasma using ramp density profile	Kumar H., Aggarwal M., Richa, Sharma D., Chandok S., Gill T.S.	Laser and Particle Beams	2018	2	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	-
332	Producing methane, methanol and electricity from organic waste of fermentation reaction using novel microbes	Dhiman S.S., Shrestha N., David A., Basotra N., Johnson G.R., Chadha B.S., Gadhamshetty V., Sani R.K.	Bioresource Technology	2018	9	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	-



333	Ameliorative Role of Castasterone on Copper Metal Toxicity by Improving Redox Homeostasis in Brassica juncea L	Yadav P., Kaur R., Kanwar M.K., Bhardwaj R., Sirhindi G., Wijaya L., Alyemeni M.N., Ahmad P.	Journal of Plant Growth Regulation	2018	4	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	-
334	Recent Developments in the Synthesis of Pyrido[1,2- a ]benzimidazoles	Khajuria R., Rasheed S., Khajuria C., Kapoor K.K., Das P.	Synthesis (Germany)	2018	7	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	-
335	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	Kumar D., Sharma P., Nepali K., Mahajan G., Mintoo M.J., Singh A., Singh G., Mondhe D.M., Singh G., Jain S.K., Gupta G.K., Ntie-Kang F.	Heliyon	2018	2	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	-
336	Fabrication of Polythiophene-Supported Ag@Fe <sub>3</sub> O <sub>4</sub> Nanoclusters and Their Utilization as Photo-catalyst in Dehydrogenative Coupling Reactions	Chopra R., Kumar M., Bhalla V.	ACS Sustainable Chemistry and Engineering	2018	1	Department of Chemistry, UGC-Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
337	Indolyl-isoxazolidines attenuate LPS-stimulated pro- inflammatory cytokines and increase survival in a mouse model of sepsis: Identification of potent lead	Singh G., Singh G., Bhatti R., Gupta M., Kumar A., Sharma A., Singh Ishar M.P.	European Journal of Medicinal Chemistry	2018	6	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	-
338	Performance analysis of ZnO and HfO <sub>2</sub> micro-pillars based capacitive antennas	Arora R., Rana S.B., Arya S.	Journal of Electromagnetic Waves and Applications	2018	-	Department of Electronics & Communication Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, India; Department of Physics & Electronics, University of Jammu, Jammu, India	-
339	An intelligent system for predicting and preventing Chikungunya virus	Thakur P., Kaur S.	2017 International Conference on Energy, Communication, Data Analytics and Soft Computing, ICECDS 2017	2018	-	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, India	-
340	Gerontechnology - The study of Alzheimer disease using cloud computing	Sharma J., Kaur S.	2017 International Conference on Energy, Communication, Data Analytics and Soft Computing, ICECDS 2017	2018	2	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, India	-
341	Dissymmetric Bay -Functionalized Perylenediimides	Kumar K., Bhargava G., Kumar S., Singh P.	Synlett	2018	10	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	-



342	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	Bhat M.A., Shakoor S.A., Badgal P., Soodan A.S.	Frontiers in Plant Science	2018	2	Plant Systematics and Biodiversity Laboratory, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India	-
343	Channel estimation in a MIMO relay system: Challenges & approaches channel estimation in MIMO relay system: A review	Kaur H., Khosla M., Sarin R.K.	Proceedings of the 2nd International Conference on Inventive Systems and Control, ICISC 2018	2018	4	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	-
344	Identification of a Malicious Optical Edge Device in the SDN- Based Optical Fog/Cloud Computing Network	Sood S.K., Deep Singh K.	Journal of Optical Communications	2018	5	Guru Nanak Dev University, Amritsar Punjab, India; Guru Nanak Dev University, Regional Campus Gurdaspur, Punjab, India	-
345	Earthworms as Organic Waste Managers and Biofertilizer Producers	Bhat S.A., Singh J., Vig A.P.	Waste and Biomass Valorization	2018	28	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; P.G. Department of Zoology, Khalsa College, Amritsar, Punjab, India	-
346	Infection of potato virus S and M in tomato in North-western India	Chaudhary P., Kumar S., Singh B., Hallan V., Nagpal A.K.	Journal of Plant Pathology	2018	-	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	-
347	Assessment of genotoxic effects of pesticide and vermicompost treated soil with Allium cepa test	Datta S., Singh J., Singh J., Singh S., Singh S.	Sustainable Environment Research	2018	20	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	-
348	Reduction of Accumulated Dispersion in 1Tbps S-band Long Haul DWDM Systems using ITU-653, FITU-655 and Corning Leaf fibers	Singh R., Singh M.L.	2018 International Conference on Recent Innovations in Electrical, Electronics and Communication Engineering, ICRIEECE 2018	2018	-	Guru Nanak Dev University RC, Sultanpur Lodhi, Dept. of ECE, Amritsar, India; Guru Nanak Dev University, Dept. of Electronics Technology, Amritsar, India	-
349	Performance Evaluation of Ti:LiNbO <sub>3</sub> Mach-Zehnder Interferometer Switch at 1.3μm, 1.46μm and 1.55μm	Kaur S., Singh M., Gill H.S., Priyanka P., Singh M.L.	2018 International Conference on Recent Innovations in Electrical, Electronics and Communication Engineering, ICRIEECE 2018	2018	-	Guru Nanak Dev University, Department of Electronics Technology, Amritsar, India	-
350	Improvement of Uniformity of Illumination for Circular LED Arrangement in VLC System	Priyanka P., Singh M., Gill H.S., Kaur S., Singh M.L.	2018 International Conference on Recent Innovations in Electrical, Electronics and Communication Engineering, ICRIEECE 2018	2018	-	Guru Nanak Dev University, Dept of Electronics Technology, Amritsar, India	-
351	A new intuitionistic fuzzy divergence measure and its applications to handle fault diagnosis of turbine	Kumar R., Parkash O.	Italian Journal of Pure and Applied Mathematics	2018	-	Department of Mathematics, Guru Nanak Dev University, Amritsar, 143005, India	-
352	Contemplating nanometer scale transport characteristics through aromatic molecules based molecular devices	Vohra R., Sawhney R.S.	International Journal of Nanoelectronics and Materials	2018	1	Department of Electronic Technology, Guru Nanak Dev University, Amritsar, Punjab, India	-
353	Hybrid artificial bee colony and tabu search based power aware scheduling for cloud computing	Sharma P., Kaur K.	International Journal of Intelligent Systems and Applications	2018	-	Department of Computer Science and Engineering, Guru Nanak Dev. University, Amritsar, Punjab, India	-
354	Dust acoustic shock waves in magnetized dusty plasma	Ghai Y., Kaur N., Singh K., Saini N.S.	Plasma Science and Technology	2018	8	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
355	Nonplanar dust acoustic solitary and rogue waves in an ion beam plasma with superthermal electrons and ions	Kaur N., Singh K., Ghai Y., Saini N.S.	Plasma Science and Technology	2018	2	Guru Nanak Dev University, Amritsar, 143005, India	-



356	Re-examining Reputation-Performance Liaison in Indian Context	Kaur A., Singh B.	Business Perspectives and Research	2018	1	Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India	-
357	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	Sharma S., Kaur I., Nagpal A.K.	Environmental Monitoring and Assessment	2018	4	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	-
358	A Fog Assisted Cyber-Physical Framework for Identifying and Preventing Coronary Heart Disease	Sood S.K., Mahajan I.	Wireless Personal Communications	2018	1	GNDU Regional Campus Gurdaspur, Gurdaspur, India	-
359	A Content Analysis of YouTube Political Advertisements: Evidence from Indian Parliamentary Elections	Sohal S., Kaur H.	Journal of Creative Communications	2018	5	Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India	-
360	A trustworthy system for secure access to patient centric sensitive information	Yachana, Kaur N., Sood S.K.	Telematics and Informatics	2018	10	Guru Nanak Dev University Regional Campus Gurdaspur, India	-
361	Synthesis, structures and antimicrobial activity of 5-nitro-salicylaldehyde-thiosemicarbazones of zinc(II) coordinated to substituted bipyridines/phenanthrolines	Kaushal M., Indoria S., Lobana T.S., Sood H., Arora D.S., Hundal G., Smolinski V.A., Kaur M., Jasinski J.P.	Polyhedron	2018	2	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	-
362	Development of qualitative pharmacognostic and high-performance thin-layer chromatographic fingerprinting of morphological similar species of genus ficus	Singh A., Mukhtar H.M., Satija S., Mehta M.	Asian Journal of Pharmaceutical and Clinical Research	2018	2	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	-
363	Self-focusing of an elliptic-Gaussian laser beam in relativistic ponderomotive plasma using a ramp density profile	Kumar H., Aggarwal M., Richa, Gill T.S.	Journal of the Optical Society of America B: Optical Physics	2018	11	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	-
364	Sentiment Analysis of Social Media Reviews using QOS Parameterization	Singh J., Singh G.	ICSCCC 2018 - 1st International Conference on Secure Cyber Computing and Communications	2018	-	Faculty of Computer Science and Engineering, Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India	-
365	Stacked Autoencoders Based Deep Learning Approach for Automatic Epileptic Seizure Detection	Singh K., Malhotra J.	ICSCCC 2018 - 1st International Conference on Secure Cyber Computing and Communications	2018	-	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	-
366	Gold Nanoparticles Immobilized Polymeric PBI Derivative: Productive, Portable, and Photocatalytic System for Heck Coupling	Kataria M., Kumar M., Singh Z., Bhalla V.	ACS Sustainable Chemistry and Engineering	2018	1	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
367	Predictive Analysis and Forecasting of SP CNX NIFTY50 using Stochastic Models	Thapar H., Shashvat K.	ICSCCC 2018 - 1st International Conference on Secure Cyber Computing and Communications	2018	-	Department of Computer Science and Engineering, Guru Nanak Dev University, Jalandhar, India; Department of Computer Science and Engineering, NIT, Delhi, India	-
368	Morphologically Robust Discrete Cosine Transform based Lossless ECG Compression with Access Control Quality	Soni N., Saini I., Singh B.	ICSCCC 2018 - 1st International Conference on Secure Cyber Computing and Communications	2018	-	Department of ECE, Dr. B.R. Ambedkar NIT Jalandhar, GNDU, RC, Jalandhar, India; Department of ECE, Guru Nanak Dev University, Regional Campus, Jalandhar, India	-
369	A Credits Based Scheduling Algorithm with K-means Clustering	Sharma V., Bala M.	ICSCCC 2018 - 1st International Conference on Secure Cyber Computing and Communications	2018	2	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	-



370	Testing the Tracking Efficiency of Commodity Exchange Traded Funds (ETFs) across the Bearish and Bullish Market Regimes: Evidence from Indian Gold ETFs	Kaur P., Singh J.	Journal of Asia-Pacific Business	2018	-	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India	-
371	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	Sharma V., Kaur R., Singh M., Selvamani R., Gupta S.M., Tiwari V.S., Karnal A.K., Singh A.	Journal of Asian Ceramic Societies	2018	5	Multifunctional Materials Laboratory, Physics Department, Guru Nanak Dev University, Amritsar, India; Ceramic Laboratory, Laser Materials Development and Devices Division, Raja Ramanna Centre for Advanced Technology, Indore, India	-
372	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	Rajesh S.Y., Singh S.K., Pandey N.K., Sharma P., Bawa P., Kumar B., Gulati M., Jain S.K., Gowthamarajan K., Singh S.	Drug Development and Industrial Pharmacy	2018	12	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	-
373	Amphiphilic Ionic Liquid-Induced Membrane Permeabilization: Binding is Not Enough	Kumar S., Scheidt H.A., Kaur N., Kaur A., Kang T.S., Huster D., Mithu V.S.	Journal of Physical Chemistry B	2018	7	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Institute for Medical Physics and Biophysics, Leipzig University, Leipzig, 04109, Germany	-
374	Biamphiphilic Ionic Liquids-Drug Mixtures: Interactional and Morphological Aspects	Vashishat R., Sanan R., Ray D., Aswal V.K., Mahajan R.K.	ChemistrySelect	2018	1	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	-
375	Sustainability reporting practices in US and UK: an empirical comparison	Bhatia A., Tuli S.	International Journal of Law and Management	2018	-	Department of Commerce and Business Management, Guru Nanak Dev University, Amritsar, India; Department of Commerce, Khalsa College For Women, Amritsar, India	-
376	Higher-component quadrupole polarizabilities: Estimations for the clock states of the alkaline-earth-metal ions	Singh S., Kaur M., Arora B., Sahoo B.K.	Physical Review A	2018	1	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Atomic, Molecular and Optical Physics Division, Physical Research Laboratory, Navrangpura, Ahmedabad, 380009, India	-
377	Chiral Squaramide Catalyzed Enantioselective 1,6-Michael Addition of Pyrazolin-5-ones to Styrylisoxazole Derivatives	Sharma V., Kaur J., Chimni S.S.	European Journal of Organic Chemistry	2018	6	Department of Chemistry, U. G. C. Centre of Advance Studies in Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	-
378	CYP2D6 (C2850T, G1846A, C100T) polymorphisms, haplotypes and MDR analysis in predicting coronary artery disease risk in north-west Indian population: A case-control study	Bhat M.A., Gandhi G.	Gene	2018	2	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
379	Rational modification of a lead molecule: Improving the antifungal activity of indole – triazole – amino acid conjugates	Mishra S., Kaur M., Chander S., Murugesan S., Nim L., Arora D.S., Singh P.	European Journal of Medicinal Chemistry	2018	5	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	-
380	Anion-controlled geometrically different Cu(II) ion-based coordination polymers and green synthetic route for copper nanoparticles: a combined experimental and computational insight	Arora M., Jassal A.K., Pandey S.K., Chawla S.K., Mudsainiyan R.K.	Journal of Coordination Chemistry	2018	-	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	-
381	ESIPT-Based Dual Chemosensor for Sequential Detection of Cd2+/Zn2+ and Nucleoside Triphosphates in Water: Application in Logic Gates	Singh H., Sharma R., Bhargava G., Kumar S., Singh P.	ChemistrySelect	2018	1	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	-



382	Heavy metal contamination in soil, food crops and associated health risks for residents of Ropar wetland, Punjab, India and its environs	Sharma S., Nagpal A.K., Kaur I.	Food Chemistry	2018	34	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	-
383	Rationally Designed Circularly Arranged Sextuple Molecule with Dimethoxyphenolic Tentacles for Ample Hunting of Cyanide	Singh P., Kaur H., Singh H.	ACS Omega	2018	1	UGC Sponsored Centre for Advanced Studies, Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	-
384	Bioactivities of phytochemicals present in tomato	Chaudhary P., Sharma A., Singh B., Nagpal A.K.	Journal of Food Science and Technology	2018	13	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	-
385	Vermiremediation and detoxification of sugar beet pulp waste using Allium cepa bioassay	Bhat S.A., Singh J., Vig A.P.	Energy, Ecology and Environment	2018	2	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	-
386	Effect of pruning systems on growth and yield traits of greenhouse grown bell pepper (Capsicum annuum L. var. grossum)	Singh I., Kaur A.	Indian Journal of Agricultural Research	2018	-	Department of Agriculture, Khalsa College, Amritsar, Punjab, 143 001, India	-
387	Conventional farming reduces the activity of earthworms: Assessment of genotoxicity test of soil and vermicast	Singh J., Singh S., Vig A.P., Bhat S.A., Hundal S.S., Yin R., Schädler M.	Agriculture and Natural Resources	2018	2	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	-
388	DNA-A prominent candidate for molecular devices: A review	Vohra R., Sawhney R.S., Kumar R., Singh K.P.	Journal of Bionanoscience	2018	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143001, India	-
389	National Innovation System of India: An Empirical Analysis	Mehta S.	Millennial Asia	2018	1	Punjab School of Economics, Guru Nanak Dev University, Amritsar, Punjab, India	-
390	Effect of polarization force on small amplitude dust kinetic Alfvén solitary and rogue waves in a nonextensive plasma	Singh M., Kaur N., Saini N.S.	Physica A: Statistical Mechanics and its Applications	2018	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
391	Quantum chemical study of hydrogen-bonded complexes of serine with water and H <sub>2</sub> O <sub>2</sub>	Chopra G., Chopra N., Kaur D.	Journal of Chemical Sciences	2018	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143 005, India	-
392	Green exfoliation of graphene nanosheets based on freezing induced volumetric expansion of carbonated water	Kaur A., Kaur J., Singh R.C.	Materials Research Express	2018	5	Department of Physics, Guru Nanak Dev University, G.T Road, Amritsar, 143005, India	-
393	Analysis of Genotoxicity of Agricultural Soils and Metal (Fe, Mn, and Zn) Accumulation in Crops	Bhatti S.S., Sambyal V., Nagpal A.K.	International Journal of Environmental Research	2018	4	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India	-
394	Population growth, urbanization and electricity - Challenges and initiatives in the state of Punjab, India	Kaur R.R., Luthra A.	Energy Strategy Reviews	2018	6	Guru Ramdas School of Planning, Guru Nanak Dev University, Amritsar, 143005, India	-
395	Performance analysis of WDM-FSO system under adverse weather conditions	Singh M.	Photonic Network Communications	2018	8	Guru Nanak Dev University, Regional Campus, Jalandhar, India	-
396	Effect of dissipative environment on collapses and revivals of a non-linear quantum oscillator	Kaur M., Arora B., Arvind	European Physical Journal D	2018	-	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	-



397	Role Reversal of the Carboxylate Group from Coordination to Hydrogen Bonding Only, in Structurally Diverse Metal-2- amino,5-Nitro-benzoates: A First Report	Jassal A.K., Sran B.S., Mandal K., Mukhopadhyay P., Hundal G.	Crystal Growth and Design	2018	-	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	-
398	P2X7 receptor polymorphisms and susceptibility to tuberculosis in a North Indian Punjabi population	Chaudhary A., Singh J.P., Sehajpal P.K., Sarin B.C.	International Journal of Tuberculosis and Lung Disease	2018	2	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	-
399	Investigation of electrical, dielectric and microwave properties of double substituted M-type Ba(1-2x)LaxNaxFe10Co0.5TiMn0.5O19 hexaferrite	Arora A., Narang S.B.	Journal of Materials Science: Materials in Electronics	2018	4	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; D.A.V. Institute of Engineering and Technology, Jalandhar, India	-
400	Effect of La-Na Doping in Co-Ti Substituted Barium Hexaferrite on Electrical and X-Band Microwave Absorption Properties	Arora A., Narang S.B.	Journal of Electronic Materials	2018	6	D.A.V. Institute of Engineering and Technology, Jalandhar, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	-
401	Assessment of radiation dose due to intake of uranium through groundwater and its carcinogenic and non- carcinogenic risks in southwest and northeast Punjab, India	Saini K., Duggal V., Bajwa B.S.	Indoor and Built Environment	2018	1	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Applied Sciences, Guru Kashi University, Bathinda, Punjab, India	-
402	Effect of heat-treatment on the magnetic and optical properties of Sr0.7Al0.3Fe11.4Mn0.6O19	Mohammed J., Suleiman A.B., Hafeez H.Y., Carol T.T., Sharma J., Bhadu G.R., Kumar Godara S., Srivastava A.K.	Materials Research Express	2018	16	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	-
403	Synthesis and Antimycobacterial Evaluation of Piperazyl-alkyl-Ether Linked 7-Chloroquinoline-Chalcone/Ferrocenyl Chalcone Conjugates	Singh A., Viljoen A., Kremer L., Kumar V.	ChemistrySelect	2018	5	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	-
404	In silico insights on diverse interacting partners and phosphorylation sites of respiratory burst oxidase homolog (Rbohs) gene families from Arabidopsis and rice	Kaur G., Pati P.K.	BMC Plant Biology	2018	4	Guru Nanak Dev University (GNDU), Department of Biotechnology, Amritsar, Punjab, 143005, India; University of Tuebingen, Quantitative Biology Center (QBiC), Tuebingen, 72076, Germany	-
405	Cost efficiency analysis of scheduled commercial banks: empirical evidence from India	Bhatia A., Mahendru M.	Journal of Management Development	2018	-	Guru Nanak Dev University, Amritsar, India; Department of Commerce, Khalsa College, Amritsar, India	-
406	Determinants of effectiveness in public higher education-students' viewpoint	Kaur H., Bhalla G.S.	International Journal of Educational Management	2018	4	Department of Commerce, Guru Nanak Dev University, Amritsar, India	-
407	Broad-band microwave absorption of Sr0.85La0.15(MnZr)xFe12-2xO19 hexagonal ferrite in 18-40 GHz frequency range	Kaur P., Bahel S., Narang S.B.	Journal of Magnetism and Magnetic Materials	2018	10	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	-



408	Organocatalytic Asymmetric Decarboxylative Addition of $\beta$ -Ketoacids to Methyleneindolinones Derivatives	Kumari A., Kaur J., Bhardwaj V.K., Chimni S.S.	European Journal of Organic Chemistry	2018	3	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	-
409	Self-focusing of q-Gaussian laser beam in relativistic plasma using exponential density based transition	Aggarwal M., Richa R., Kumar H., Arora N.S., Gill T.S., Deepshikha D.	AIP Conference Proceedings	2018	1	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	-
410	Structural, surface morphological and ferroelectric properties of Ca doped BaTiO <sub>3</sub> solid solutions	Chawla A., Kaur K., Singh A., Singh M.	AIP Conference Proceedings	2018	-	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	-
411	Endothelial dysfunction and platelet hyperactivity in type 2 diabetes mellitus: Molecular insights and therapeutic strategies	Kaur R., Kaur M., Singh J.	Cardiovascular Diabetology	2018	44	Guru Nanak Dev University, Department of Molecular Biology and Biochemistry, Amritsar, Punjab, India; Guru Nanak Dev University, Department of Human Genetics, Amritsar, Punjab, India	-
412	[2+2] Cycloadditions of Sorbyl Tosylate with Imines/1-Azadienes: A One-Pot Domino Approach for $\alpha$ -Alkylidene- $\beta$ -lactams and Their Computational Studies and Antimicrobial Evaluation	Kumar Y., Bedi P.M.S., Singh P., Adeniyi A.A., Singh-Pillay A., Singh P., Bhargava G.	ChemistrySelect	2018	3	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 University 06800, 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-Ekiti Ekiti State, Nigeria; School of Chemistry and Physics, University of KwaZulu Natal, P/Bag X54001, Westville, Durban, 4000, South Africa	-
413	Effect of dilute concentrations of Sm on the temperature- dependent electrical and dielectric properties of ZnO	Arora D., Asokan K., Kumar S., Kaur S., Kaur P., Singh G.P., Mahajan A., Kalia S., Kalia N., Seth K., Kaur P., Singh D.P.	Journal of the American Ceramic Society	2018	2	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	-
414	Simulating Fraunhofer diffraction of waves using microsoft excel spreadsheet	Singh I., Khun Khun K., Kaur B.	Physics Education	2018	3	PG Department of Physics, Khalsa College, Amritsar, 143005, India; School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	-
415	Microstructure and dielectric properties of LNT (Li <sub>2</sub> O-Nb <sub>2</sub> O <sub>5</sub> -TiO <sub>2</sub> ) based dielectric ceramics synthesized by solid state reaction method	Singh R., Bahel S., Bindra S.	Proceedings - 2nd International Conference on Micro-Electronics and Telecommunication Engineering, ICMETE 2018	2018	1	Dept. of Electronics Technology, GNDU, Amritsar, India	-
416	Multi-factor user authentication scheme for IoT-based healthcare services	Dhillon P.K., Kalra S.	Journal of Reliable Intelligent Environments	2018	9	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab 144001, India	-
417	Non-performing assets (NPAs) of scheduled commercial banks (SCBs) in India: Analytical revelations	Sethi A.S., Bajaj A.	Finance India	2018	-	Guru Nanak Dev University, Punjab School of Economics, Amritsar, Punjab 143005, India	-
418	Genetic association of ADIPOQ gene variants (-3971A>G and +276G>T) with obesity and metabolic syndrome in north Indian punjabi population	Kaur H., Badaruddoza B., Bains V., Kaur A.	PLoS ONE	2018	2	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India	-





419	An Optical-Fog assisted EEG-based virtual reality framework for enhancing E-learning through educational games	Sood S.K., Singh K.D.	Computer Applications in Engineering Education	2018	6	Department of Computer Science & Engineering, Guru Nanak Dev University, Gurdaspur, Punjab, India	-
420	Effect of polarization force on dust-acoustic cnoidal waves in dusty plasma	Singh K., Ghai Y., Kaur N., Singh Saini N.	European Physical Journal D	2018	8	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
421	Arbitrary amplitude dust-ion acoustic solitary structures in electronegative plasma	Kohli R., Saini N.S., Gill T.S.	Astrophysics and Space Science	2018	1	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
422	Variation in composition, protein and pasting characteristics of different pigmented and non pigmented rice ( <i>Oryza sativa</i> L.) grown in Indian Himalayan region	Kaur P., Singh N., Pal P., Kaur A.	Journal of Food Science and Technology	2018	6	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	-
423	Density-functional study of hydrogen cyanide adsorption on silicene nanoribbons	Walia G.K., Randhawa D.K.K.	Journal of Molecular Modeling	2018	3	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, 144007, India	-
424	Traditional and improved paddy varieties: Composition, protein, pasting, and gluten-free chapati making properties	Kaur P., Singh N., Pal P., Kaur A.	Cereal Chemistry	2018	6	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	-
425	WO <sub>3</sub> nanolamellae/reduced graphene oxide nanocomposites for highly sensitive and selective acetone sensing	Kaur J., Anand K., Anand K., Singh R.C.	Journal of Materials Science	2018	11	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
426	Withania somnifera as a Potential Anxiolytic and Anti-inflammatory Candidate Against Systemic Lipopolysaccharide-Induced Neuroinflammation	Gupta M., Kaur G.	NeuroMolecular Medicine	2018	6	Medical Biotechnology Laboratory, Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
427	Benzothiazole based Schiff-base-A mechanistically discrete sensor for HSO <sub>4</sub> <sup>-</sup> and I <sup>-</sup> : Application to bioimaging and vapour phase sensing of ethyl acetate	Kaur I., Khajuria A., Ohri P., Kaur P., Singh K.	Sensors and Actuators, B: Chemical	2018	6	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	-
428	Sentiment analysis of demonetization of 500 & 1000 rupee banknotes by Indian government	Singh P., Sawhney R.S., Kahlon K.S.	ICT Express	2018	25	Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	-
429	Dynamics of resonant energy transfer in one-dimensional chain of Rydberg atoms	Kaur M., Kaur P., Sahoo B.K., Arora B.	European Physical Journal D	2018		Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Atomic, Molecular and Optical Physics Division, Physical Research Laboratory, Navrangpura, Ahmedabad 380009, India	-
430	Enhancing solubility of poorly aqueous soluble drugs: critical appraisal of techniques	Singh D., Bedi N., Tiwary A.K.	Journal of Pharmaceutical Investigation	2018	34	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	-
431	Structural, morphological, functional and digestibility properties of starches from cereals, tubers and legumes: a comparative study	Bajaj R., Singh N., Kaur A., Inouchi N.	Journal of Food Science and Technology	2018	8	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; Department of Applied Biological Science, Fukuyama University, Fukuyama, Japan	-
432	Antigenotoxic potential of plant leaf extracts of <i>Parkinsonia aculeata</i> L. using <i>Allium cepa</i> assay	Sharma S., Sharma S., Vig A.P.	Plant Physiology and Biochemistry	2018	1	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; University of KwaZulu Natal, Westville Campus, Durban, South Africa	-
433	Performance analysis of Wi-Fi shaped SIW antennas	Arora R., Rana S.B., Arya S.	AEU - International Journal of Electronics and Communications	2018	5	Department of Electronics & Communication Engineering, Guru Nanak Dev University, Regional Campus Gurdaspur Punjab 143521, India; Department of Physics & Electronics, University of Jammu, Jammu, J&K 180006, India	-



434	Effect of grain hardness, fractionation and cultivars on protein, pasting and dough rheological properties of different wheat flours	Singh N., Katyal M., Viridi A.S., Kaur, A., Goyal A., Ahlawat A.K., Mahendru Singh A.	International Journal of Food Science and Technology	2018	3	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Division of Genetics, Indian Agricultural Research Institute, New Delhi, 110012, India	-
435	Stability of temperature modulated convection in a vertical fluid layer	Singh J., Bajaj R.	Applied Mathematical Modelling	2018	2	Department of Mathematics, Guru Nanak Dev University Amritsar, India; Centre for Advanced Study in Mathematics, Panjab University Chandigarh, India	-
436	A practitioner's guide to designing employee surveys	Akhuly A., Bhardwaj S., Shandilya S.M.	Global Business and Organizational Excellence	2018	-	Indian Institute of Technology, Bombay, India; Guru Nanak Dev University in Amritsar, India; XLRI School of Management in Jamshedpur, India	-
437	Potentially active fluorescent drug polymer nanoconjugate for antibacterial drug delivery	Singh H., Raj T., Banipal T.S., Mehta S.K.	Indian Journal of Pharmaceutical Sciences	2018	1	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	-
438	Stability and dynamics of a cosh-Gaussian laser beam in relativistic thermal quantum plasma	Mahajan R., Richa R., Gill T.S., Kaur R., Aggarwal M.	Laser and Particle Beams	2018	1	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	-
439	Relativistic ponderomotive self-focusing of quadruple Gaussian laser beam in cold quantum plasma	Richa, Aggarwal M., Kumar H., Mahajan R., Arora N.S., Gill T.S.	Laser and Particle Beams	2018	2	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	-
440	Quality characteristics of carabeef nuggets as affected by pomegranate rind powder	Habib H., Siddiqi R.A., Dar A.H., Dar M.A., Gul K., Rashid N., Siddiqi U.S.	Journal of Food Measurement and Characterization	2018	4	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	-
441	24-Epibrassinolide; an active brassinolide and its role in salt stress tolerance in plants: A review	Tanveer M., Shahzad B., Sharma A., Biju S., Bhardwaj R.	Plant Physiology and Biochemistry	2018	26	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	-
442	Structural analysis of WO <sub>3</sub> -TeO <sub>2</sub> glasses by neutron, high energy X-ray diffraction, reverse Monte Carlo simulations and XANES	Khanna A., Fábíán M., Hirdesh, Krishna P.S.R., Benmore C.J., Kaur A., Kaur A., Shinde A.B., Rajput P., Jha S.N.	Journal of Non-Crystalline Solids	2018	6	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	-
443	Investigation of thermoluminescence and kinetic parameters of gamma ray exposed LiF: Sm <sup>3+</sup> , Eu <sup>3+</sup> nanophosphors for dosimetric applications	Kumar A., Kumar A., Dogra R., Manhas M., Sharma S., Kumar R.	Ceramics International	2018	12	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 Hamirpur Himachal Pradesh 177005, India; Swami Premanand Mahavidyalaya, Mukerian, Punjab 144211, India	-
444	Diazonium chemistry for making highly selective and sensitive CNT-Neutral Red hybrid-based chemiresistive acetone sensors	Bensghaïer A., Kaur N., Fourati N., Zerrouki C., Lamouri A., Beji M., Mahajan A., Chehimi M.M.	Vacuum	2018	5	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 SIT1, CNAM, Rue Conté, Paris, 75003, France; Université; Paris Diderot, Sorbonne Paris Cité, ITODYS, UMR 7086, CNRS, Paris, F-75013, France	-



445	Elucidation of microwave absorption mechanisms in Co-Ga substituted Ba-Sr hexaferrites in X-band	Kaur H., Singh C., Marwaha A., Narang S.B., Jotania R., Mishra S.R., Bai Y., Raju K.C.J., Singh D., Ghimire M., Dhruv P., Sombra A.S.B.	Journal of Materials Science: Materials in Electronics	2018	9	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	-
446	Titanium based mixed ligand complexes: Synthesis, spectroscopic and in vitro antiproliferative studies	Kumar N., Kaushal R., Chaudhary A., Arora S., Awasthi P.	Inorganic and Nano-Metal Chemistry	2018	-	Department of Chemistry, Govt Degree College Jukhala District Bilaspur Himachal 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, MMEC, Maharishi Markandeshwar Deemed to be university, Mullana, Ambala, Haryana 133207, India	-
447	Antiplasmodial Medicinal Plants: A Literature Review on Efficacy, Selectivity and Phytochemistry of Crude Plant Extracts	Kaur H., Mukhtar H.M., Singh A., Mahajan A.	Journal of Biologically Active Products from Nature	2018	3	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	-
448	Antioxidant and antimutagenic activities of different fractions from the leaves of rhododendron arboreum sm. And their gc- ms profiling	Gautam V., Kohli S.K., Arora S., Bhardwaj R., Kazi M., Ahmad A., Raish M., Ganaie M.A., Ahmad P.	Molecules	2018	6	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	-
449	Supramolecular Ensemble of Perylene Bisimide Derivative and Cu <sub>2</sub> O-Ag Nanoparticles: Nano/"Dip Strip" Catalytic System for One-Pot, Three-Component Click Reaction at Room Temperature	Singh G., Kumar M., Bhalla V.	ACS Sustainable Chemistry and Engineering	2018	2	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
450	Comparative Analysis of Different Statistical Fading Channel Models for WIMAX System	Kaur H., Singh M.L.	International Conference on Current Trends in Computer, Electrical, Electronics and Communication, CTCEEC 2017	2018	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	-
451	Impact of investment in intangible assets on corporate performance in India	Bhatia A., Aggarwal K.	International Journal of Law and Management	2018	2	University School of Financial Services, Guru Nanak Dev University, Amritsar, India; Department of Commerce, Pt. Mohan Lal SD College for Women, Gurdaspur, India	-
452	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	Singh P., Kaur S., Kumari P., Kaur B., Kaur M., Singh G., Bhatti R., Bhatti M.	Journal of Medicinal Chemistry	2018	6	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	-



453	Effect of degree of milling on physicochemical, structural, pasting and cooking properties of short and long grain Indica rice cultivars	Sandhu R.S., Singh N., Kaler R.S.S., Kaur A., Shevkani K.	Food Chemistry	2018	8	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Applied Agriculture, Central University of Punjab, Bathinda, 151001, India	-
454	Thiosemicarbazones of copper: Crystal structures of [(furan- 2-acetaldehyde-N-phenyl-thiosemicarbazono)]bis(triphenylphosphine)copper(I) and [bis(furan-2-formaldehyde-N-phenyl-thiosemicarbazono)]copper(II)	Lobana T.S., Kaushal M., Virk R.K., Garcia-Santos I., Jasinski J.P.	Polyhedron	2018	1	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	-
455	Simulation of Terahertz Multimode Propagation in Parallel Plate Waveguide of Metal	Kaur S., Kaur M., Kaur R., Kumar G.	WRAP 2017 - Workshop on Recent Advances in Photonics	2018	1	Guru Nanak Dev University, Department of Physics, Amritsar, 143005, India; Indian Institute of Technology, Department of Physics, Guwahati, Assam, 781039, India	-
456	Effect of Superthermal Polarization Force on Dust Acoustic Nonlinear Structures	Sethi P., Singh K., Saini N.S.	Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences	2018	1	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
457	Analysis of FSO based ROF-WDM System with Advance Intensity Modulation Techniques under Various Atmospheric Conditions	Singh P., Kaur H.	Proceedings of the 2nd International Conference on Electronics, Communication and Aerospace Technology, ICECA 2018	2018	1	Electronics and Communication Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India	-
458	Dressed state analysis of electromagnetically induced transparency in a five-level X-type atomic system with wavelength mismatching effects	Kaur A., Kaur P.	Physica Scripta	2018	2	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
459	Channel Estimation in MIMO-OFDM System: A Review	Kaur H., Khosla M., Sarin R.K.	Proceedings of the 2nd International Conference on Electronics, Communication and Aerospace Technology, ICECA 2018	2018	1	Department of Electronics and Communication Engg., GNDU RC, Jalandhar, India; Department of Electronics and Communication Engg., NIT, Jalandhar, India	-
460	Phenolic compounds as beneficial phytochemicals in pomegranate ( <i>Punica granatum</i> L.) peel: A review	Singh B., Singh J.P., Kaur A., Singh N.	Food Chemistry	2018	64	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	-
461	1 H-1,2,3-Triazole Tethered Nitroimidazole-Isatin Conjugates: Synthesis, Docking, and Anti-Proliferative Evaluation against Breast Cancer	Kumar S., Saha S.T., Gu L., Palma G., Perumal S., Singh-Pillay A., Singh P., Anand A., Kaur M., Kumar V.	ACS Omega	2018	16	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	-
462	Spectroscopic investigations of Sm <sup>3+</sup> -doped lead alumino- borate glasses containing zinc, lithium and barium oxides	Mohan S., Kaur S., Kaur P., Singh D.P.	Journal of Alloys and Compounds	2018	18	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	-
463	Blue-yellow emission adjustability with aluminium incorporation for cool to warm white light generation in dysprosium doped borate glasses	Kaur S., Arora D., Kumar S., Singh G., Mohan S., Kaur P., Kriti, Kaur P., Singh D.P.	Journal of Luminescence	2018	10	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, Khalsa College, Amritsar, 143005, India; Department of Physics, BBK DAV College Amritsar 143005, India; Department of Mathematics, Guru Nanak Dev University, Amritsar, 143005, India	-



464	Quantum tunneling through aromatic molecular junctions for molecular devices: A review	Kaur R.P., Sawhney R.S., Engles D.	Chinese Journal of Physics	2018	2	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	-
465	Tinospora cordifolia as a potential neuroregenerative candidate against glutamate induced excitotoxicity: An in vitro perspective 11 Medical and Health Sciences 1109 Neurosciences	Sharma A., Kaur G.	BMC Complementary and Alternative Medicine	2018	5	Department of Biotechnology, Medical Biotechnology Lab, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
466	Insights into fluoride-induced oxidative stress and antioxidant defences in plants	Sharma R., Kaur R.	Acta Physiologiae Plantarum	2018	6	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
467	A lightweight multi-factor secure smart card based remote user authentication scheme for cloud-IoT applications	Sharma G., Kalra S.	Journal of Information Security and Applications	2018	11	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India	-
468	Modeling protein-protein interactions through alanine-amide hydrogen bonds	Chopra G., Kaur D., Chopra N.	Structural Chemistry	2018	2	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	-
469	Cloud-centric IoT based student healthcare monitoring framework	Verma P., Sood S.K., Kalra S.	Journal of Ambient Intelligence and Humanized Computing	2018	30	Guru Nanak Dev University, Amritsar, India	-
470	Effect of seasonality and fruit ripening stages on bioactive constituents and antioxidant potential of guava fruit cultivars	Shukla S., Kaur D., Kaur S., Prasad R.	Plant Archives	2018	-	Centre of Food Technology, University of Allahabad, India; Khalsa College, Amritsar, Punjab, India; Kulbhaskar Ashram Degree College, Allahabad, India	-
471	Kyasanur Forest Disease Classification Framework Using Novel Extremal Optimization Tuned Neural Network in Fog Computing Environment	Majumdar A., Debnath T., Sood S.K., Baishnab K.L.	Journal of Medical Systems	2018	3	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	-
472	A novel mutation in the PRPF31 in a North Indian adRP family with incomplete penetrance	Bhatia S., Goyal S., Singh I.R., Singh D., Vanita V.	Documenta Ophthalmologica	2018	3	Department of Human Genetics, Guru Nanak Dev University (GNDU), Amritsar, Punjab 143005, India; Dr. Daljit Singh Eye Hospital, Amritsar, Punjab, India	-
473	Characterization of mucilages extracted from different flaxseed (Linum usitatissimum L.) cultivars: A heteropolysaccharide with desirable functional and rheological properties	Kaur M., Kaur R., Punia S.	International Journal of Biological Macromolecules	2018	11	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; Department of Food Science and Technology, Chaudhary Devi Lal University, Sirsa, India	-
474	Acute inhalation toxicity study of n-heneicosane and its combination with diflubenzuron: An attracticide of Aedes aegypti	Gautam A., Singh D., Shrivastava P., Vijayaraghavan R.	Toxicology and Industrial Health	2018	-	Division of CBRN Defence, Institute of Nuclear Medicine and Allied Sciences, Delhi, India; Department of Pharmacology, Khalsa College of Pharmacy, Amritsar, India; QuantilesIMS, Bangalore, India; Saveetha University, Chennai, India	-
475	Trust in open source software development communities: A comprehensive analysis	Sohal A.S., Gupta S.K., Singh H.	International Journal of Open Source Software and Processes	2018	2	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	-
476	Replication of MACF1 gene variant rs2296172 with type 2 diabetes susceptibility in the Bania population group of Punjab, India	Sharma V., Sethi I., Sharma I., Singh G., Mahajan A., Angural A., Bhanwer A.J.S., Dhar M.K., Pandita K.K., Singh V., Rai E., Sharma S.	International Journal of Diabetes in Developing Countries	2018	2	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	-



477	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	Sharma P., Singh S.K., Pandey N.K., Rajesh S.Y., Bawa P., Kumar B., Gulati M., Singh S., Verma S., Yadav A.K., Wadhwa S., Jain S.K., Gowthamarajan K., Malik A.H., Gupta S., Khursheed R.	Powder Technology	2018	9	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	-
478	Structural, optical and thermal properties of glass and anti- glass phases in strontium tellurite and borotellurite systems doped with europium	Kaur R., Khanna A., González- Barriuso M., González F., Chen B.	Materials Research Bulletin	2018	16	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	-
479	Spermine detection from urine and blood serum using ionic self-assembly of benzimidazolium based dipod and dodecylsulfate	Tripathi N., Singh P., Luxami V., Mahajan D., Kumar S.	Sensors and Actuators, B: Chemical	2018	7	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	-
480	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	Kumari P., Lobana T.S., Butcher R.J., Castineiras A., Zeller M.	Inorganica Chimica Acta	2018	1	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemistry, Howard University, Washington, DC 20059, United States; Departamento De Química Inorganica, Facultad de Farmacia, Universidad de Santiago, Santiago, 15782, Spain; Department of Chemistry, Purdue University, West Lafayette, IN 47907-2084, United States	-
481	Frovatriptan loaded hydroxy propyl methyl cellulose/treated chitosan based composite fast dissolving sublingual films for management of migraine	Singh H., Singla Y.P., Narang R.S., Pandita D., Singh S., Narang J.K.	Journal of Drug Delivery Science and Technology	2018	2	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	-
482	Microwave attenuation of cobalt-tin substituted barium- strontium hexagonal ferrite	Singh J., Singh C., Joshi R., Bindra Narang S.	Proceedings - 2nd International Conference on Intelligent Circuits and Systems, ICICS 2018	2018	-	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	-
483	Remote sensing image fusion using fuzzy logic and gyrator transform	Singh D., Kaur M., Singh H.	Remote Sensing Letters	2018	10	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	-
484	Copper (50 MeV) and Oxygen (84 MeV) Ion Irradiation Probed Thermal, Structural and Optical Behavior of Polyethylene Terephthalate	Samra K.S., Singh R., Singh L.	Journal of Macromolecular Science, Part B: Physics	2018	-	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	-
485	Correlation between multiferroic properties and processing parameters in NdFeO <sub>3</sub> -PbTiO <sub>3</sub> solid solutions	Kumar S., Pal J., Kaur S., Sharma V., Dahiya S., Babu P.D., Singh M., Ray A., Maitra T., Singh A.	Journal of Alloys and Compounds	2018	2	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	-



486	Electrocoagulation technology for high strength arsenic wastewater: Process optimization and mechanistic study	Gilhotra V., Das L., Sharma A., Kang T.S., Singh P., Dhuria R.S., Bhatti M.S.	Journal of Cleaner Production	2018	25	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	-
487	Graphene aerogel based room temperature chemiresistive detection of hydrogen peroxide: A key explosive ingredient	Kaur A., Kaur J., Singh R.C.	Sensors and Actuators, A: Physical	2018	3	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
488	Morpho-structural and opto-electrical properties of chemically tuned nanostructured TiO <sub>2</sub>	Kaur G., Negi P., Kaur M., Sharma R., Konwar R.J., Mahajan A.	Ceramics International	2018	7	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	-
489	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	Komal, Singh G., Singh G., Kang T.S.	ACS Omega	2018	7	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India	-
490	TDMM: Tensor-based data representation and mining for healthcare data in cloud computing environments	Sandhu R., Kaur N., Sood S.K., Buyya R.	Journal of Supercomputing	2018	3	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	-
491	Bisbenzimidazole based molecule as violet fluorescent material	Aulakh R.K., Mahajan A., Kumar S., Singh G.	AIP Conference Proceedings	2018	-	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	-
492	Nature and Hierarchy of Hydrogen-Bonding Interactions in Binary Complexes of Azoles with Water and Hydrogen Peroxide	Chopra N., Kaur D., Chopra G.	ACS Omega	2018	5	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	-
493	Phytoremediation of Heavy Metals Using Cotton Plant: A Field Analysis	Kaur R., Bhatti S.S., Singh S., Singh J., Singh S.	Bulletin of Environmental Contamination and Toxicology	2018	7	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	-
494	Insights into the phenolic compounds present in jambolan (Syzygium cumini) along with their health-promoting effects	Singh B., Singh J.P., Kaur A., Singh N.	International Journal of Food Science and Technology	2018	3	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	-
495	Simulation and Analysis of Uniformity of Illuminance in Indoor VLC System	Priyanka, Singh M.L.	2018 6th Edition of International Conference on Wireless Networks and Embedded Systems, WECON 2018 - Proceedings	2018	-	Dept of Electronics Technology, Guru Nanak Dev University, Amritsar, India	-
496	Experimental Evaluation of Performance of Underwater Free Space Optical Link in the Presence of Air Bubbles	Singh M., Gill H.S., Singh M.L.	2018 6th Edition of International Conference on Wireless Networks and Embedded Systems, WECON 2018 - Proceedings	2018	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	-



497	Synthesis and Characterization of LNT (Li <sub>2</sub> O- Nb <sub>2</sub> O <sub>5</sub> -TiO <sub>2</sub> ) Based Dielectric Ceramics	Singh R., Bahel S., Bindra S.	2018 6th Edition of International Conference on Wireless Networks and Embedded Systems, WECON 2018 - Proceedings	2018	1	Dept. of Electronics Technology, GNDU, Amritsar, India	-
498	An industrial study on developers' prevalent copy and paste activities	Bharti S., Singh H.	Proceedings - 2017 International Conference on Next Generation Computing and Information Systems, ICNGCIS 2017	2018	1	Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India	-
499	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	Saini S., Katnoria J.K., Kaur I.	Water Environment Research	2018	1	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	-
500	Comparison of Physico-Chemical Properties of Starch Isolated From Bran and Endosperm of Rice (Oryza sativa L.)	Singh T.P., Sogi D.S.	Starch/Staerke	2018	2	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143 005, India	-
501	Effect of Parboiling on Phenolic, Protein, and Pasting Properties of Rice from Different Paddy Varieties	Pal P., Singh N., Kaur P., Kaur A.	Journal of Food Science	2018	4	Dept. of Food Science and Technology, Guru Nanak Dev Univ., Amritsar, 143005, India	-
502	Comparative evaluation of NANO transport properties for DNA nucleobase based molecular junction devices	Vohra R., Sawhney R.S.	Journal of Molecular Modeling	2018	1	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	-
503	$\beta$ -glucan from different Indian oat (Avena sativa) cultivars: Chemical, functional, structural, and rheological properties	Singh S., Kaur M., Sogi D.S.	Journal of Food Processing and Preservation	2018	1	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	-
504	Exploration of insecticidal potential of an alpha glucosidase enzyme inhibitor from an endophytic Exophiala spinifera	Kaur J., Kaur R., Datta R., Kaur S., Kaur A.	Journal of Applied Microbiology	2018	2	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India	-
505	Genotoxic damage in end-stage renal disease	Gandhi G., Mehta T., Contractor P., Tung G.	Mutation Research - Genetic Toxicology and Environmental Mutagenesis	2018	2	Department of Human Genetics, Guru Nanak Dev University, Amritsar, 143 005, India	-
506	Li <sub>2</sub> O-Ta <sub>2</sub> O <sub>5</sub> -TiO <sub>2</sub> M-phase solid solutions as effective X-band shielders	Kaur G., Pubby K., Bahel S., Bindra Narang S.	Ceramics International	2018	2	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India	-
507	Tunable Thermoelectric Performance in Porous Armchair Graphene Nanoribbons as a Function of Strain, Pore Morphology and Temperature	Kaur S., Narang S.B., Randhawa D.K.K.	Journal of Electronic Materials	2018	2	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University, RC Jalandhar, Ladhevali, Punjab 144007, India	-
508	Internet of Things based activity surveillance of defence personnel	Bhatia M., Sood S.K.	Journal of Ambient Intelligence and Humanized Computing	2018	8	Guru Nanak Dev University, Regional Campus, Gurdaspur, India	-
509	SNA based QoS and reliability in fog and cloud framework	Sood S.K.	World Wide Web	2018	4	Department of Computer Science & Engineering, Guru Nanak Dev University Regional Campus Gurdaspur, Gurdaspur, India	-
510	Fog-cloud based cyber-physical system for distinguishing, detecting and preventing mosquito borne diseases	Sood S.K., Mahajan I.	Future Generation Computer Systems	2018	25	Department of Computer Science and Engineering, GNDU, Regional Campus, Gurdaspur, Punjab, India	-
511	Passive Optical Network Evolution to Next Generation Passive Optical Network: A Review	Kumari M., Sharma R., Sheetal A.	2018 6th Edition of International Conference on Wireless Networks and Embedded Systems, WECON 2018 - Proceedings	2018	1	Department of Electronics and Communication Engineering, Punjabi University, Patiala, India; Department of Electronics and Communication Engineering, GNDU Regional Campus, Gurdaspur, India	-





512	Predictive analytics of sensor data based on supervised machine learning algorithms	Gupta S., Mittal M., Padha A.	Proceedings - 2017 International Conference on Next Generation Computing and Information Systems, ICNGCIS 2017	2018	2	Department of CET, Guru Nanak Dev University, India; Department of CSE, MIET, Jammu, India	-
513	Comparison of different reflectance indices for vegetation analysis using Landsat-TM data	Kumar V., Sharma A., Bhardwaj R., Thukral A.K.	Remote Sensing Applications: Society and Environment	2018	3	Department of Botanical & Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botany, DAV University, Jalandhar, Punjab 144012, India	-
514	Fractionation and grain hardness effect on protein profiling, pasting and rheological properties of flours from medium- hard and extraordinarily soft wheat varieties	Katyal M., Virdi A.S., Singh N., Chopra N., Kaur A., Ahlawat A.K., Singh A.M.	Journal of Food Science and Technology	2018	6	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Division of Genetics, Indian Agricultural Research Institute, New Delhi, 110012, India	-
515	Microstructural (self-assembly) and optical based discrimination of Hg <sup>2+</sup> , CN <sup>-</sup> and Hg(CN) <sub>2</sub> ion-pair; Hg <sup>2+</sup> promoted-ESIPT assisted guanylation of thiourea	Singh H., Bhargava G., Kumar S., Singh P.	Sensors and Actuators, B: Chemical	2018	7	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemical Sciences, IK Gujral Punjab Technical University, Kapurthala, 144601, India	-
516	Environment friendly machining of inconel 625 under Nano-fluid Minimum Quantity Lubrication (NMQL)	Singh T., Dureja J.S., Dogra M., Bhatti M.S.	International Journal of Precision Engineering and Manufacturing	2018	15	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	-
517	Multivariate analysis on the distribution of elements in plants	Kumar V., Sharma A., Bakshi P., Bhardwaj R., Thukral A.K.	Acta Physiologiae Plantarum	2018	3	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	-
518	Thermoluminescence of Li <sub>2</sub> B <sub>4</sub> O <sub>7</sub> :Cu phosphor exposed to proton beam for dosimetric application	Chopra V., Dhoble S.J., Gupta K.K., Singh A., Pandey A.	Radiation Measurements	2018	7	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	-
519	Nickel; whether toxic or essential for plants and environment - A review	Shahzad B., Tanveer M., Rehman A., Cheema S.A., Fahad S., Rehman S., Sharma A.	Plant Physiology and Biochemistry	2018	32	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	-
520	Selenium ameliorates chromium toxicity through modifications in pigment system, antioxidative capacity, osmotic system, and metal chelators in Brassica juncea seedlings	Handa N., Kohli S.K., Sharma A., Thukral A.K., Bhardwaj R., Alyemeni M.N., Wijaya L., Ahmad P.	South African Journal of Botany	2018	12	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	-
521	Synthesis and Characterization of Rod Like Nano-sized Cobaltamine Complexes as Textile Dyeing Agents	Behal J., Kaur V., Mrzyglód J., Hoffmann M., Janiak A., Kaur K., Khunt R.	ChemistrySelect	2018	-	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	-
522	Assessment of revenue efficiency of Indian scheduled commercial banks	Bhatia A., Mahendru M.	International Journal of Law and Management	2018	1	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India; Department of Commerce, Khalsa College, Amritsar, India	-



523	Keto-Enol Tautomerism of Temperature and pH Sensitive Hydrated Curcumin Nanoparticles: Their Role as Nanoreactors and Compatibility with Blood Cells	Kaur R., Khullar P., Mahal A., Gupta A., Singh N., Ahluwalia G.K., Bakshi M.S.	Journal of Agricultural and Food Chemistry	2018	3	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	-
524	Effect of potassium chloride on the solvation behavior of caffeine, theophylline and theobromine: Volumetric, viscometric, calorimetry and spectroscopic approach	Beri A., Banipal P.K., Banipal T.S.	Food Chemistry	2018	1	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
525	Effects of annealing on density, glass transition temperature and structure of tellurite, silicate and borate glasses	Kaur A., Khanna A., Kaur A., Hirdesh, González-Barriuso M., González F.	Journal of Non-Crystalline Solids	2018	2	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	-
526	Cobalt substituted nickel ferrites via Pechini's sol-gel citrate route: X-band electromagnetic characterization	Pubby K., Meena S.S., Yusuf S.M., Bindra Narang S.	Journal of Magnetism and Magnetic Materials	2018	41	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India; Solid State Physics Division, Bhabha Atomic Research Centre, Trombay, Mumbai, 400085, India	-
527	Temporal distribution, source apportionment, and pollution assessment of metals in the sediments of Beas river, India	Kumar V., Sharma A., Minakshi, Bhardwaj R., Thukral A.K.	Human and Ecological Risk Assessment	2018	14	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	-
528	Segmenting Generation Y using the Big Five personality traits: understanding differences in fashion consciousness, status consumption and materialism	Kaur H., Anand S.	Young Consumers	2018	4	Guru Nanak Dev University, Amritsar, India	-
529	A novel feedback system for pedagogy refinement in large lecture classrooms	Chavan P., Gupta S., Mitra R.	ICCE 2018 - 26th International Conference on Computers in Education, Main Conference Proceedings	2018	4	IDP in Educational Technology, Indian Institute of Technology, Bombay, India; Department of Computer Engineering and Technology, GNDU, Amritsar, India	-
530	Interval type-2 fuzzy Kalman filter aided individual channel estimation in MIMO relay systems	Kaur H., Khosla M., Sarin R.K.	International Journal of Communication Systems	2018	-	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	-
531	New product announcement: spokesperson a manifestation of increasing firm value	Mann B.J.S., Babbar S.	International Journal of Emerging Markets	2018	-	University Business School, Guru Nanak Dev University, Amritsar, India	-
532	Potential ecological risks of metal(loid)s in riverine floodplain soils	Bhatti S.S., Kumar V., Kumar A., Gouzos J., Kirby J., Singh J., Sambyal V., Nagpal A.K.	Ecotoxicology and Environmental Safety	2018	4	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	-
533	Social media buzz created by #nanotechnology: Insights from Twitter analytics	Singh P., Kahlon K.S., Sawhney R.S., Vohra R., Kaur S.	Nanotechnology Reviews	2018	5	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	-
534	Performance analysis of bulk arrival queue with balking, optional service, delayed repair and multi-phase repair	Singh C.J., Jain M., Kaur S.	Ain Shams Engineering Journal	2018	5	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	-



535	Naringin reveals ameliorative property over elevated oxidative stress levels in animal models	Singh Z., Kaur A., Sharma S.	Asian Journal of Pharmaceutical and Clinical Research	2018	-	Department of Zoology, Khalsa College, Amritsar, Punjab, India	-
536	Estimation of Natural Radionuclides and Exhalation Rate in Surface Soils of Four Districts of Haryana, India	Panghal A., Kumar A., Kumar S., Singh J., Singh P., Bajwa B.S.	Journal of the Geological Society of India	2018	1	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	-
537	Smart fluorescent supramolecular assemblies: Self-assembly in the presence of metal ions and anions in mixed aqueous media	Kataria M., Kumar M., Bhalla V.	Journal of the Indian Chemical Society	2018	1	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143 005, India	-
538	Gamma ray shielding properties at 129.5 MBq and structural investigations of the Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -K <sub>2</sub> O-Li <sub>2</sub> O-V <sub>2</sub> O <sub>5</sub> glass system	Dogra M., Singh K.J., Kaur K., Anand V.	Physics and Chemistry of Glasses: European Journal of Glass Science and Technology Part B	2018	-	Department of Physics, Guru Nanak Dev University, Amritsar 143005, India	-
539	Effect of flipped classroom instructional strategy on self directed learning	Kaur A., Kauts A.	Indian Journal of Public Health Research and Development	2018	-	Department of Education, Guru Nanak Dev University, Amritsar, India; Faculty of Education, Guru Nanak Dev University, Amritsar, India	-
540	Impact of webquest on student engagement	Kaur S., Kauts A.	Indian Journal of Public Health Research and Development	2018	1	Department of Education, Amritsar Guru Nanak Dev University, Amritsar, India	-
541	Performance of Indian National Stock Exchange Indices: A comparative analysis	Singh J., Seth S.	Finance India	2018	-	Guru Nank Dev University, The Department of Commerce, Grand Trunk Road, Off. NH1, Amritsar, Punjab 143001, India	-
542	Assessment of antioxidative and ameliorative potential of aqueous extract of leaves of Thuja orientalis (Platyclusus Orientalis [L.])	Mehra S., Sharma S., Chadha P.	Asian Journal of Pharmaceutical and Clinical Research	2018	-	Department of Zoology, Cytogenetics Laboratory, Guru Nanak Dev University, Amritsar, Punjab 143 005, India	-
543	CEOs' Characteristics and Firm Performance: A Study of Indian Firms	Kaur R., Singh B.	Indian Journal of Corporate Governance	2018	2	University School of Financial Studies, Guru Nanak Dev University, Amritsar, Punjab, India; University School of Financial Studies, Guru Nanak Dev University, Amritsar, Punjab, India	-
544	Corporate Reputation: Do Board Characteristics Matter? Indian Evidence	Kaur A., Singh B.	Indian Journal of Corporate Governance	2018	3	Senior Research Fellow, Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India	-
545	Sorption technique as a tool for reduction of genotoxicity	Saini S., Kaur I., Katnoria J.K.	Toxicology and Industrial Health	2018	-	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	-
546	Physico-Chemical Studies on Binary Mixtures of 1,4-Dioxane and Alkan-1-ols at 298.15 K	Banipal P.K., Singh V., Kaur N., Sharma R., Thakur S., Kaur M., Banipal T.S.	Proceedings of the National Academy of Sciences India Section A - Physical Sciences	2018	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India	-
547	5 × 10 Gbps WDM-CAP-PON based on frequency comb using OFDM with blue LD	Sheetal A., Singh H.	Optical and Quantum Electronics	2018	1	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	-
548	Temperature dependent photoluminescence from WS <sub>2</sub> nanostructures	Sharma S., Bhagat S., Singh J., Ahmad M., Sharma S.	Journal of Materials Science: Materials in Electronics	2018	1	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	-
549	Structural, thermal and photoluminescent properties of Eu <sub>2</sub> O <sub>3</sub> -Li <sub>2</sub> O-TeO <sub>2</sub> glasses	Hirdesh, Khanna A.	Journal of Luminescence	2018	9	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
550	Gas-sensing properties of armchair silicene nanoribbons towards carbon-based gases with single-molecule resolution	Walia G.K., Randhawa D.K.K.	Structural Chemistry	2018	5	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, 144007, India	-



551	Probing the binding ability of vitamin B1 with bovine serum albumin: Calorimetric, light scattering, spectroscopic and volumetric studies	Kaur A., Sharma S., Banipal P.K., Banipal T.S.	Journal of Chemical Thermodynamics	2018	3	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
552	Synergy of Physico-chemical and Biological Experiments for Developing a Cyclooxygenase-2 Inhibitor	Singh P., Kaur J., Kaur H., Kaur A., Bhatti R.	Scientific Reports	2018	5	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	-
553	Low-grade neuroinflammation due to chronic sleep deprivation results in anxiety and learning and memory impairments	Manchanda S., Singh H., Kaur T., Kaur G.	Molecular and Cellular Biochemistry	2018	14	Medical Biotechnology Laboratory, Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India	-
554	Change profile analysis of open-source software systems to understand their evolutionary behavior	Saini M., Chahal K.K.	Frontiers of Computer Science	2018	2	Department of Computer Science, Guru Nanak Dev University, Amritsar, 143005, India	-
555	Performance analysis of statistical and supervised learning techniques in stock data mining	Sharma M., Sharma S., Singh G.	Data	2018	8	Department of Computer Science and Applications, DAV University, Jalandhar, 144401, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, 143001, India	-
556	Microbial production of dicarboxylic acids from edible plants and milk using GC-MS	Kaur R., Kaur R., Sharma A., Kumar V., Sharma M., Bhardwaj R., Thukral A.K.	Journal of Analytical Science and Technology	2018	4	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botany, DAV University, Sarmastpur, Jalandhar, Punjab 144012, India	-
557	Perceived social support and perceived stress, relations to adjustment among migrant students: A test of buffering hypothesis	Vats N., Kaur N.	Indian Journal of Public Health Research and Development	2018	3	School of Education, Lovely Professional University, Phagwara, India; Department of Education, Guru Nanak Dev University, Amritsar, India	-
558	Screening of CYP1B1 Arg368His as predominant mutation in North Indian primary open angle glaucoma and juvenile onset glaucoma patients	Kaur A., Vanita V., Singh J.	Molecular Biology Research Communications	2018	2	Department of Biotechnology, GGDSD College, Sector-32C, Chandigarh (UT), 160030, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, 143005, India	-
559	Physico-nutritional and sensory properties of cookies formulated with quinoa, sweet potato and wheat flour blends	Chopra N., Dhillon B., Rani R., Singh A.	Current Research in Nutrition and Food Science	2018	2	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; Department of Food Science and Technology, Punjab Agricultural University, Ludhiana, India	-
560	In vitro propagation, clonal fidelity and phytochemical analysis of Rhodiola imbricata Edgew: a rare trans-Himalayan medicinal plant	Bhardwaj A.K., Singh B., Kaur K., Roshan P., Sharma A., Dolker D., Naryal A., Saxena S., Pati P.K., Chaurasia O.P.	Plant Cell, Tissue and Organ Culture	2018	5	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	-
561	The effect of aliovalent Pb2+ dopant on the magnetic and magneto dielectric properties of LaFeO3 solid solutions	Kumar S., Pal J., Kaur S., Kaur R., Babu P.D., Singh M., Singh A.	Journal of Magnetism and Magnetic Materials	2018	4	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	-
562	What determines the tourist satisfaction? Evidence from Jammu and Kashmir - India	Aara R.R., Sofi A.A.	International Journal of Hospitality and Tourism Systems	2018	1	Punjab School of Economics, GNDU, Amritsar, Punjab, India; Department of Humanities and Social Sciences, IIT Madras, Chennai, Tamil Nadu, India	-
563	Schizophyllum commune induced genotoxic and cytotoxic effects in Spodoptera litura	Kaur M., Chadha P., Kaur S., Kaur A., Kaur R., Yadav A.K., Kaur R.	Scientific Reports	2018	6	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	-
564	Machining performance investigation of AISI 304 austenitic stainless steel under different turning environments	Singh T., Dureja J.S., Dogra M., Bhatti M.S.	International Journal of Automotive and Mechanical Engineering	2018	6	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	-



565	Obliquely Propagating Electron Acoustic Shock Waves in Magnetized Plasma	Bansal S., Aggarwal M., Gill T.S.	Brazilian Journal of Physics	2018	1	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	-
566	Nonplanar Electron - Acoustic Shock Waves with Superthermal Hot Electrons	Bansal S., Aggarwal M., Gill T.S.	Brazilian Journal of Physics	2018	6	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	-
567	IoT, big data and HPC based smart flood management framework	Sood S.K., Sandhu R., Singla K., Chang V.	Sustainable Computing: Informatics and Systems	2018	24	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus Gurdaspur Punjab, India; School of Computing and Information Systems, University of Melbourne, Melbourne, Australia; International Business School Suzhou, Xi'an Jiaotong- Liverpool University, Suzhou, China	-
568	Enhanced dielectric and optical properties of nanoscale barium hexaferrites for optoelectronics and high frequency application	Mohammed J., Suleiman A.B., Tchouank Tekou Carol T., Hafeez H.Y., Sharma J., Maji P.K., Kumar S.G., Srivastava A.K.	Chinese Physics B	2018	12	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, Amritsar, 143005, India	-
569	Optimization of Ni <sup>2+</sup> /Ni <sup>3+</sup> ratio in reduced graphene oxide/nickel oxide nanohybrids for platinum free dye sensitized solar cells	Singh R., Kumar S., Bedi R.K., Saxena V., Aswal D.K., Mahajan A.	Journal of Physics and Chemistry of Solids	2018	6	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	-
570	28-homobrassinolide regulates antioxidant enzyme activities and gene expression in response to salt- and temperature- induced oxidative stress in Brassica juncea	Kaur H., Sirhindi G., Bhardwaj R., Alyemeni M.N., Siddique K.H.M., Ahmad P.	Scientific Reports	2018	13	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	-
571	Exogenous application of calcium to 24-epibrassinosteroid pre-treated tomato seedlings mitigates NaCl toxicity by modifying ascorbate-glutathione cycle and secondary metabolites	Ahmad P., Abd Allah E.F., Alyemeni M.N., Wijaya L., Alam P., Bhardwaj R., Siddique K.H.M.	Scientific Reports	2018	21	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	-
572	Applications of rice protein in nanomaterials synthesis, nanocolloids of rice protein, and bioapplicability	Mandial D., Khullar P., Mahal A., Kumar H., Singh N., Ahluwalia G.K., Bakshi M.S.	International Journal of Biological Macromolecules	2018	5	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	-
573	Anti-inflammatory effect of methanolic extract of Gmelina arborea bark and its fractions against carrageenan induced paw oedema in rats	Kaur S., Bedi P.M.S., Kaur N.	Natural Product Research	2018	1	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India	-



574	Selective and reversible recognition of Hg <sup>2+</sup> ions by Tetrathia [22] porphyrin (2.1.2.1)	Virk T.S., Kaur P., Singh K.	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2018	2	Department of Chemistry, UGC-Centre of Advanced Study-II, Guru Nanak Dev University, Amritsar, 143005, India	-
575	Satisfaction, trust and loyalty: investigating the mediating effects of commitment, switching costs and corporate image	Kaur H., Soch H.	Journal of Asia Business Studies	2018	11	Department of Commerce, Guru Nanak Dev University, Amritsar, India; Department of Management, I.K. Gujral Punjab Technical University Kapurthala, Kapurthala, Punjab, India	-
576	Jasmonic acid induced changes in physio-biochemical attributes and ascorbate-glutathione pathway in <i>Lycopersicon esculentum</i> under lead stress at different growth stages	Bali S., Kaur P., Kohli S.K., Ohri P., Thukral A.K., Bhardwaj R., Wijaya L., Alyemeni M.N., Ahmad P.	Science of the Total Environment	2018	13	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	-
577	Hydrophobically Driven Morphologically Diverse Self-Assembled Architectures of Deoxycholate and Imidazolium- Based Biamphiphilic Ionic Liquids in Aqueous Medium	Singh G., Komal K., Singh M., Singh O., Kang T.S.	Journal of Physical Chemistry B	2018	4	Department of Chemistry, UGC-Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India	-
578	Dicarboxamide polymorph derivatives for trace-level electrochemical sensing of Cu(II) supported with crystal structure and theoretical studies	Rana L.K., Sharma R., Ahmed B., Kaur D., Kumar S., Hundal G., Mittal S.K.	Analytical Methods	2018	-	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	-
579	Cognitive reasoning processes and identity achievement: Mediating role of identity processing styles	Kaur M., Tung S.	Pakistan Journal of Psychological Research	2019	-	Khalsa College of Education, Amritsar, Punjab, India; Department of Psychology, Guru Nanak Dev University Amritsar, Punjab, India	-
580	HMM-Based Secure Framework for Optical Fog Devices in the Optical Fog/Cloud Network	Sood S.K., Deep Singh K.	Journal of Optical Communications	2019	3	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	-
581	Transition metal catalyzed [6 + 2] cycloadditions	Anand A., Singh P., Kumar V., Bhargava G.	RSC Advances	2019	-	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	-
582	Effect of pruning intensity and time on yield and quality of guava cv. L-49	Singh H.R., Kaur A.	Research on Crops	2019	-	Department of Horticulture, Khalsa College, Amritsar, Punjab 143 001, India	-
583	Occurrence of human urogenital myiasis due to neglected personal hygiene: A review	Singh A., Kaur J.	Transactions of the Royal Society of Tropical Medicine and Hygiene	2019	4	Post Graduate Department of Zoology, Khalsa College Amritsar Punjab, India	-
584	Nano-based drug delivery system: Recent strategies for the treatment of ocular disease and future perspective	Qamar Z., Qizilbash F.F., Iqbal M.K., Ali A., Narang J.K., Ali J., Baboota S.	Recent Patents on Drug Delivery and Formulation	2019	1	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	-
585	Exploring the role of dimethyl larginine dimethyl laminohy drolasemediated reduction in tissue asymmetrical dimethylarginine levels in cardio-protective mechanism of ischaemic postconditioning in rats	Kaur K., Singh N., Dhawan R.K.	Iranian Journal of Basic Medical Sciences	2019	-	Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, India; Department of Pharmacology, Khalsa College of Pharmacy, Amritsar, India	-
586	Using a digital storage oscilloscope to visualise the induced EMF of a magnet passing through a solenoid	Singh I., Kaur B.	Physics Education	2019	-	P.G. Department of Physics, Khalsa College, Amritsar, 143001, India; School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	-



587	A survey of efficient trust management schemes in mobile ad-hoc network: Reliable trust management framework of MANET	Kaur J., Kaur S.	International Journal of Business Data Communications and Networking	2019	-	Khalsa College of Engineering and Technology, Amritsar, India; PURCITMPunjab, India	-
588	Traumatic myiasis of the scalp in a 3-year-old patient- a case of neglected health care	Singh A., Singh D.	Malaysian Journal of Medicine and Health Sciences	2019	-	Department of Zoology, Khalsa College, Amritsar, Punjab 143001-, India; Department of Zoology and Environment Sciences, Punjabi University, Patiala, Punjab 147002, India	-
589	Visualizing the trajectory of a charged particle in electric and magnetic fields using an Excel spreadsheet	Singh I., Khun K.K., Kaur B.	Physics Education	2019	2	P.G. Department of Physics, Khalsa College, Amritsar, 143001, India; School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	-
590	Electron beam evaporated tin oxide thin films for thermistor applications	Sohal M.K., Singh R.C., Mahajan A.	Materials Today: Proceedings	2019	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
591	Substrate induced effects on structural, optical and electrical properties of lead (II)tetrakis (4-cumylphenoxy) phthalocyanine thin films	Kaur N., Mahajan A., Singh D.P.	Materials Today: Proceedings	2019	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
592	EIT-based giant self-kerr-nonlinear behavior of multilevel X-scheme	Kaur A., Dar Z.I., Kaur S., Kaur P.	Materials Today: Proceedings	2019	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
593	Evaluation of antinociceptive effect of seed extracts of Eugenia jambolana Linn	Singh H., Sharma A., Bhardwaj A., Kaur B., Badial K., Kaur S., Singh B.	Plant Archives	2019	-	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
594	Output, employment and productivity: Contribution of different technology intensive manufacturing industries of India	Kaur K., Mehta S.	International Journal of Economic Policy in Emerging Economies	2019	-	Punjab School of Economics, Guru Nanak Dev University, Amritsar, India	-
595	Human protein function prediction enhancement using decision tree based machine learning approach	Sharma S., Singh G., Singh R.	Communications in Computer and Information Science	2019	-	Hindu College, Guru Nanak Dev University, Amritsar, India; Guru Nanak Dev University, Amritsar, India	-
596	On chebyshev centers in metric spaces	Narang T.D.	Publications de l'Institut Mathematique	2019	-	Department of Mathematics, Guru Nanak Dev University, Amritsar, India	-
597	Physicochemical and spectral evaluation of the interactional behavior of nicotinic acid (vitamin B3) with mixed [sodium deoxycholate (bile salt) + cetyltrimethylammonium bromide] surfactants	Banipal P.K., Sohal P., Banipal T.S.	Journal of Dispersion Science and Technology	2019	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, India	-
598	Formulation of sustained-release microspheres of cefixime with enhanced oral bioavailability and antibacterial potential	Razdan K., Sahajpal N.S., Singh K., Singh H., Singh H., Jain S.K.	Therapeutic Delivery	2019	-	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
599	IoT and cloud computing based automatic epileptic seizure detection using HOS features based random forest classification	Singh K., Malhotra J.	Journal of Ambient Intelligence and Humanized Computing	2019	3	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; Department of ECE, Guru Nanak Dev University Regional Campus, Jalandhar, India	-
600	Dust-acoustic cnoidal waves in a magnetized quantum dusty plasma	Sethi P., Saini N.S.	Waves in Random and Complex Media	2019	1	Department of Physics, Guru Nanak Dev University, Amritsar, India	-
601	Failure prediction, lead time estimation and health degree assessment for hard disk drives using voting based decision trees	Kaur K., Kaur K.	Computers, Materials and Continua	2019	4	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	-



602	An Efficient Architectural Framework for Non-obtrusive and Instantaneous Real-Time Identification of Clones During the Software Development Process in IDE	Bharti S., Singh H.	Communications in Computer and Information Science	2019	1	Department of Computer Science, Guru Nanak Dev University, Amritsar, India	-
603	Rank Based Multi Path Job Execution Sequencing for Multi Cluster Environment to Find Shortest Path	Kaur J., Kumar A., Dhingra D.S.	Communications in Computer and Information Science	2019	-	CSE Department, GNDU, Amritsar, India	-
604	Can Tweets Predict Election Results? Insights from Twitter Analytics	Singh P., Kumar K., Kahlon K.S., Sawhney R.S.	Communications in Computer and Information Science	2019	-	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	-
605	Role of Perseverance and Persistence for Retaining and Stimulating MOOC Learners	Kaur P.D., Malhotra J., Arora M.	Communications in Computer and Information Science	2019	-	Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus, Jalandhar, India	-
606	Formulation and evaluation of ferrous ascorbate floating tablets for the treatment of anaemia	Singh K., Jain S.K., Razdan K., Singh H., Sahajpal N.S., Singh H., Singh A., Thakur S.	Drug Delivery Letters	2019	-	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
607	UV light promoted 'Metal'/Additive-free oxidation of alcohols: Investigating the role of alcohols as electron donors	Walia P.K., Sharma M., Kumar M., Bhalla V.	RSC Advances	2019	-	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar Punjab, 143005, India	-
608	Suitability of FBG for Gain Flatness of $64 \times 10$ Gbps DWDM System Using Hybrid (EDFA+YDFA) Optical Amplifier in C + L Band up to 50 GHz (0.4 nm) Channel Spacing	Singh H., Sheetal A.	Journal of Optical Communications	2019	-	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	-
609	Improved Performance Investigation of 10 Gb/s-10 GHz 4-QAM Based OFDM-Ro-FSO Transmission Link	Grover A., Sheetal A.	Journal of Optical Communications	2019	-	Guru Nanak Dev University, Regional Campus, Gurdaspur, India	-
610	Performance Analysis of 20 Gbit/s-40 GHz MDM-Ro-FSO Link Incorporating DPSK Modulation Scheme	Grover A., Sheetal A.	Journal of Optical Communications	2019	-	Guru Nanak Dev University, Regional Campus, Gurdaspur, India	-
611	Organocatalytic enantioselective conjugate addition of pyrazolin-5-ones to arylomethylidene malonates	Sharma A., Sharma V., Chimni S.S.	Organic and Biomolecular Chemistry	2019	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
612	Announcement of an appointment of an outside as CEO: A study of stock market reaction	Mehndiratta D., Kang L.S.	Journal of Advanced Research in Dynamical and Control Systems	2019	-	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India	-
613	Responses of plants to pesticide toxicity: An overview [Respostas de plantas à toxicidade de pesticidas: Uma visão geral]	Sharma A., Kumar V., Thukral A.K., Bhardwaj R.	Planta Daninha	2019	3	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India	-
614	Biomimetic heterobimetallic architecture of Ni(II) and Fe(II) for CO <sub>2</sub> hydrogenation in aqueous media. A DFT study	Shiekh B.A.	RSC Advances	2019	-	Department of Chemistry, UGC Sponsored Centre of Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India	-





615	Bio-mimetic self-assembled computationally designed catalysts of Mo and W for hydrogenation of CO <sub>2</sub> /dehydrogenation of HCOOH inspired by the active site of formate dehydrogenase	Shiekh B.A., Kaur D., Kumar S.	Physical Chemistry Chemical Physics	2019	1	Department of Chemistry, UGC Sponsored Centre of Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India	-
616	Recent advances in the application of BODIPY in bioimaging and chemosensing	Kaur P., Singh K.	Journal of Materials Chemistry C	2019	17	Department of Chemistry, UGC Centre of Advanced Study, Guru Nanak Dev University, Amritsar, 143 005, India	-
617	Immunopathology of recurrent vulvovaginal infections: New aspects and research directions	Kalia N., Singh J., Kaur M.	Frontiers in Immunology	2019	5	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India	-
618	2 × 10 Gbit/s-10 GHz Radio over Free Space Optics Transmission System Incorporating Mode Division Multiplexing of Hermite Gaussian Modes	Singh M., Malhotra J.	Journal of Optical Communications	2019	4	Electronics and Communication Engineering Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India	-
619	Ultrastructural changes in fin epithelium of <i>Channa punctatus</i> (Bloch) exposed to mercuric chloride: sem study	Maheshwari S., Dua A.	Journal of Toxicology and Environmental Health - Part A: Current Issues	2019	-	Aquatic Biology Laboratory, Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India	-
620	Hardiness as a moderator in the relationship between emotional autonomy and depression among adolescents	Dhillon R., Mehra N.	Pakistan Journal of Psychological Research	2019	-	Department of Psychology, Guru Nanak Dev University, Amritsar, India	-
621	Modulation of biochemical and physiological parameters in <i>Hordeum vulgare</i> L. Seedlings under the influence of benzyl-butyl phthalate	Kumari A., Kaur R.	PeerJ	2019	5	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	-
622	Scientific validation of the antimicrobial and antiproliferative potential of <i>Clerodendrum serratum</i> (L.) Moon, its phytoconstituents and their biosafety by acute oral toxicity study	Mahajan H., Singh Arora D., Singh H., Jain S.K., Namarta K., Singh J.	Drug and Chemical Toxicology	2019	-	Microbial Technology Laboratory, Department of Microbiology, Guru Nanak Dev University, Amritsar, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, India	-
623	An innovative approach towards failure prediction of hard disk drives using machine learning	Kaur K., Kaur K.	Journal of Advanced Research in Dynamical and Control Systems	2019	-	Dept. of Computer Engg. & Technology, Guru Nanak Dev University, Amritsar, India; Dept. of Computer Science, Guru Nanak Dev University, Amritsar, India	-
624	DRAODM: Diabetic Retinopathy Analysis Through Optimized Deep Learning with Multi Support Vector Machine for Classification	Bhatti E., Kaur P.	Communications in Computer and Information Science	2019	-	Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	-
625	Dynamics between bank-led financial inclusion and economic growth in emerging economies: The case of India	Nanda K.	International Journal of Development and Conflict	2019	1	Punjab School of Economics, Guru Nanak Dev University, Amritsar, Punjab, India	-
626	Influence of samarium and iron substitution on structural and electrical properties of barium zirconate titanate solid solutions	Kaur R., Singh M., Singh A.	Journal of Asian Ceramic Societies	2019	1	Multifunctional Materials Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, India	-



627	Visible light promoted ANI@Au:CuO catalyzed sequential amination, azidation and annulation for the preparation of 2-arylbenzimidazoles	Chopra R., Kumar M., Neelam, Bhalla V.	Green Chemistry	2019	1	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar Punjab, 143005, India	-
628	Quantitative Analysis of Software Component's Reusability	Ratti N., Kaur P.	Smart Innovation, Systems and Technologies	2019	-	Guru Nanak Dev University, Amritsar, India	-
629	Best coapproximation in quotient spaces	Gupta S.	Iranian Journal of Mathematical Sciences and Informatics	2019	-	Department of Mathematics, Guru Nanak Dev University, Amritsar, India	-
630	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?	Shiekh B.A., Kaur D.	RSC Advances	2019	1	Department of Chemistry, UGC Sponsored Centre of Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India	-
631	Magnetoacoustic Nonlinear Solitary and Freak Waves in Pair- Ion Plasma	Sethi P., Singh K., Saini N.S.	Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences	2019	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
632	Reinforcement learning-based real time search algorithm for routing optimisation in wireless sensor networks using fuzzy link cost estimation	Singh K., Malhotra J.	International Journal of Communication Networks and Distributed Systems	2019	-	Department of ECE, Guru Nanak Dev University Regional Campus, Sultanpur Lodhi, Jalandhar, Punjab, India	-
633	Exploiting Parallelism Available in Loops Using Abstract Syntax Tree	Kumar A., Singh H.	Advances in Intelligent Systems and Computing	2019	-	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, 143005, India	-
634	Evaluation and Classification of Road Accidents Using Machine Learning Techniques	Singh J., Singh G., Singh P., Kaur M.	Advances in Intelligent Systems and Computing	2019	1	Department of CS, GNDU, Amritsar, Punjab 143005, India; Department of CS, Faculty of Engineering and Tech, GNDU, Amritsar, Punjab 143005, India	-
635	An improved exponential type estimator of population mean of sensitive variable using optional randomized response technique	Grover L.K., Kaur A.	Pakistan Journal of Statistics and Operation Research	2019	-	Department of Mathematics,, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Mathematics, Guru Nanak Dev University, Amritsar, Punjab, India	-
636	Utilization of flour from rice brokens in wheat flour chapatti: evaluation of dough rheology, starch digestibility, glycemic index and retrogradation behavior	Gujral H.S., Sharma B., Singh P.	Journal of Food Science and Technology	2019	1	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	-
637	Relationship of Mixolab characteristics with protein, pasting, dynamic and empirical rheological characteristics of flours from Indian wheat varieties with diverse grain hardness	Singh N., Gujral H.S., Katyal M., Sharma B.	Journal of Food Science and Technology	2019	3	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	-
638	Metal nanoparticles embedded in AIEE active supramolecular assemblies: Robust, green and reusable nanocatalysts	Deol H., Singh G., Kumar M., Bhalla V.	Dalton Transactions	2019	1	Department of Chemistry, UGC Sponsored Centre for Advance Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
639	A secure multi-factor ECC based authentication scheme for Cloud-IoT based healthcare services	Dhillon P.K., Kalra S.	Journal of Ambient Intelligence and Smart Environments	2019	1	Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus, Ladhewali, Jalandhar, Punjab, India	-
640	Does Firm's Size Speak of Its Reputation? Indian Evidence	Kaur A., Singh B.	Global Business Review	2019	-	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India	-
641	A new sustainable approach towards preparation of sunlight active Ag/AgBr Janus nanoparticles using non-toxic surface active ionic liquid	Singh G., Komal, Singh G., Kaur M., Kang T.S.	Journal of Materials Chemistry A	2019	3	Department of Chemistry, University Grants Commission (UGC), Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-



642	Measuring Celebrity Equity: Unearthing the Consumer Knowledge Structure Associations	Ghuman M.K., Parmar Y., Mann B.J.S.	Global Business Review	2019	4	Assistant Professor, University Business School, Guru Nanak Dev University, Amritsar, Punjab, India; Research Scholar, University Business School, Guru Nanak Dev University, Amritsar, Punjab, India; University Business School, Guru Nanak Dev University, Amritsar, Punjab, India	-
643	Cloud security and forensic awareness survey: An empirical analysis	Bhatia S., Malhotra J.	Journal of Engineering and Applied Sciences	2019	-	Department of Computer Science, Guru Nanak Dev University, Amritsar, 143005, India; Department of Computer Science and Engineering GNDU Regional Campus, Jalandhar, 144007, India	-
644	Cost Efficient 4× 2.5 Gb/s Transparent WDM Ring Network using DML and MetroCor Fiber for Long Reach Applications	Sheetal A., Singh H.	Journal of Optical Communications	2019	2	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	-
645	Failure prediction and health status assessment of storage systems with decision trees	Kaur K., Kaur K.	Communications in Computer and Information Science	2019	4	Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	-
646	Investigating developers' sentiments associated with software cloning practices	Bharti S., Singh H.	Communications in Computer and Information Science	2019	-	Department of Computer Science, Guru Nanak Dev University, Amritsar, India	-
647	Impact of neighboring agent's characteristics with Q-learning in network multi-agent system	Kaur H., Devi G.	Communications in Computer and Information Science	2019	-	Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus, Gurdaspur, Punjab 143521, India	-
648	Fault Aware Improved Clustering Algorithm to Improve Execution Time of the Cloudlets	Kaur J., Kaur K.	Communications in Computer and Information Science	2019	-	Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	-
649	Mefenamic acid-loaded solid SMEDDS: An innovative aspect for dose reduction and improved pharmacodynamics profile	Kumar M., Singh D., Bedi N.	Therapeutic Delivery	2019	4	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
650	Targeting tyrosine kinase: Development of acridone – pyrrole – oxindole hybrids against human breast cancer	Kaur M., Singh P.	Bioorganic and Medicinal Chemistry Letters	2019	5	Department of Chemistry, UGC Sponsored Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India	-
651	Synthesis, Characterization, and Evaluation of Surface and Thermal Properties and Cytotoxicity of 2-Hydroxy-3-Phenoxypropyl Imidazolium Bola-Type Gemini Amphiphiles	Aggarwal R., Singh S., Saini V., Kaur G.	Journal of Surfactants and Detergents	2019	1	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	-
652	An enhanced post-migration algorithm for dynamic load balancing in cloud computing environment	Bhandari A., Kaur K.	Advances in Intelligent Systems and Computing	2019	1	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	-
653	Sanction enforcement for norm violation in multi-agent systems: a case study	Kaur H., Sharma A.	Advances in Intelligent Systems and Computing	2019	-	Department of Computer Science & Engineering, Guru Nanak Dev University Regional Campus, Gurdaspur, Punjab 143521, India	-
654	Statistical optimization of enzymatic hydrolysis of rice bran protein concentrate for enhanced hydrolysate production by papain	Singh T.P., Siddiqi R.A., Sogi D.S.	LWT	2019	6	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143 005, India	-
655	Hybrid metaheuristic based scheduling with job duplication for cloud data centers	Singh R.	Advances in Intelligent Systems and Computing	2019	1	Guru Nanak Dev University, Amritsar, Punjab, India	-
656	A comprehensive framework for student stress monitoring in fog-cloud IoT environment: m-health perspective	Verma P., Sood S.K.	Medical and Biological Engineering and Computing	2019	6	Computer Science and Engineering, Guru Nanak Dev University, Amritsar, 143521, India	-



657	A context-aware recommender engine for smart kitchen	Pratibha, Kaur P.D.	Advances in Intelligent Systems and Computing	2019	-	GNDU Regional Campus, Jalandhar, India	-
658	When things become friends: A semantic perspective on the social Internet of Things	Gulati N., Kaur P.D.	Advances in Intelligent Systems and Computing	2019	3	Department of CSE, GNDU Regional Campus, Jalandhar, India	-
659	Software architecture evaluation in Agile environment	Ahuja C., Kaur P., Singh H.	Advances in Intelligent Systems and Computing	2019	-	Department of Computer Science and Engineering, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
660	Nanoformulations for ocular delivery of drugs - A patent perspective	Dogra A., Kaur K., Ali J., Baboota S., Narang R.S., Narang J.K.	Recent Patents on Drug Delivery and Formulation	2019	1	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	-
661	Applications of information measures to the theory of coding	Handa R., Narula R.K., Gandhi C.P.	International Journal on Emerging Technologies	2019	-	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	-
662	New entropic modeling for discrete probability distributions	Handa R., Narula R.K., Gandhi C.P.	International Journal on Emerging Technologies	2019	-	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	-
663	Surface active magnetic iron oxide nanoparticles for extracting metal nanoparticles across an aqueous-organic interface	Verma M., Singh K., Bakshi M.S.	Journal of Materials Chemistry C	2019	6	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	-
664	Socio-economic variables and quality of work life: Public transportation bus drivers	Arora S., Randhawa G.	SCMS Journal of Indian Management	2019	-	Guru Gobind Singh Khalsa College, Sarhali Tarn Taran, Punjab, India; University Business School, Guru Nanak Dev University, Amritsar, India	-
665	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	Kumar K., Kumar S., Singh P., Kaur S., Kaur S., Bhargava G.	Journal of Materials Chemistry B	2019	8	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	-
666	Sustainable preparation of sunlight active $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> nanoparticles using iron containing ionic liquids for photocatalytic applications	Komal, Kaur H., Kainth M., Meena S.S., Kang T.S.	RSC Advances	2019	1	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	-
667	Aggregation tailored emission of a benzothiazole based derivative: Photostable turn on bioimaging	Kaur I., Sharma V., Mobin S.M., Khajuria A., Ohri P., Kaur P., Singh K.	RSC Advances	2019	2	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	-
668	Self-microemulsifying drug delivery system for problematic molecules: An update	Singh D., Tiwary A.K., Bedi N.	Recent Patents on Nanotechnology	2019	2	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	-



669	Risk factor analysis for breast cancer in premenopausal and postmenopausal women of Punjab, India	Kour A., Sharma S., Sambyal V., Guleria K., Singh N.R., Uppal M.S., Manjari M., Sudan M., Kukreja S.	Asian Pacific Journal of Cancer Prevention	2019	-	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	-
670	Perylene diimide-Cu <sup>2+</sup> 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	Kumar K., Kaur S., Kaur S., Bhargava G., Kumar S., Singh P.	Journal of Materials Chemistry B	2019	8	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	-
671	A study to access factors affecting agripreneurship in diversified utilization of potato crop in state of Punjab and Himachal Pradesh	Singh P., Farhan M., Saajan S., Singh P.	Plant Archives	2019	-	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	-
672	Luliconazole vesicular based gel formulations for its enhanced topical delivery	Kaur M., Singh K., Jain S.K.	Journal of Liposome Research	2019	2	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Microbiology, Government Medical College, Amritsar, Punjab, India	-
673	Polymeric precipitation inhibitor as an effective trigger to convert supersaturated into supersaturable state in vivo	Singh D., Singh M., Tharmatt A., Tiwary A.K., Bedi N.	Therapeutic Delivery	2019	-	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	-
674	Appraisal of metallic pollution and ecological risks in agricultural soils of Alborz province, Iran, employing contamination indices and multivariate statistical analyses	Heidari A., Kumar V., Keshavarzi A.	International Journal of Environmental Health Research	2019	2	Department of Soil Science, University of Tehran, Karaj, Iran; Guru Nanak Dev University, Amritsar, India	-
675	Supplementary variable technique (SVT) for non-Markovian single server queue with service interruption (QSI)	Jain M., Kaur S., Singh P.	Operational Research	2019	2	Department of Mathematics, Indian Institute of Technology Roorkee, Roorkee, 247667, India; Department of Mathematics, Guru Nanak Dev University, Amritsar, 143005, India	-
676	Differentiation strategy in private banking services in India: Identifying role of tangible factors & traits affecting service levels	Arora A., Misra S.K., Verma R.	International Journal on Emerging Technologies	2019	1	Guru Nanak Dev University College, Jalandhar, Punjab, India; Center of Continuing Education, Dr. B R Ambedkar National Institute of Technology, Jalandhar, Punjab, India	-
677	Modelling the effect of knowledge management performance on organisational effectiveness: A study of e-governance in India	Bhardwaj R., Singh H.	Electronic Government	2019	-	PG Department of Computer Science and IT, DAV College, Amritsar, Punjab, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India	-
678	Temperature dependent electrical transport characteristics of polyaniline films modified with gold nanoparticles	Thakur S., Kaur P., Devgan K., Singh L.	Materials Today: Proceedings	2019	-	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	-
679	Digital Payment Adoption in India: Insights from Twitter Analytics	Singh P., Dwivedi Y.K., Kahlon K.S., Rana N.P., Patil P.P., Sawhney R.S.	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2019	-	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	-



680	Enzymatic degradation of biofilm by metalloprotease from microbacterium sp. Sks10	Saggu S.K., Jha G., Mishra P.C.	Frontiers in Bioengineering and Biotechnology	2019	4	Department of Biotechnology, Guru Nanak Dev University, Amritsar, India; Plant Microbe Interactions Laboratory, National Institute of Plant Genome Research, New Delhi, India	-
681	Synthesis and characterization of Zn <sup>2+</sup> -Zr <sup>4+</sup> substituted barium hexaferrite by sol gel auto combustion method	Godara S.K., Singh H., Malhi P.S., Kaur V., Narang S.B., Sood A.K., Bhadu G.R., Chaudhari J.C.	Materials Today: Proceedings	2019	3	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	-
682	Memory and pedagogy of Gurbānī Saṅgīta: An autoethnographic Udāsī*	Singh B.B.	Sikh Formations: Religion, Culture, Theory	2019	-	The Anād Foundation, New Delhi, India; Faculty of Humanities & Religious Studies, Guru Nanak Dev University, Amritsar, India	-
683	Tailored therapeutics based on 1,2,3-1: H -triazoles: A mini review	Prasher P., Sharma M.	MedChemComm	2019	8	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	-
684	Comparative Analysis of High Speed 20/20 Gbps OTDM-PON, WDM-PON and TWDM-PON for Long-Reach NG-PON2	Kumari M., Sharma R., Sheetal A.	Journal of Optical Communications	2019	1	Punjabi University, Patiala, 147002, India; Guru Nanak Dev University Regional Campus, Gurdaspur, 143521, India	-
685	Determinants of Diffusion and Adoption of ATM cum Debit Cards in Indian Banking Sector	Kaur K., Kaur M.	Global Business Review	2019	-	Department of Commerce, PG Government College (Hisar) District -Hissar, Haryana, India; Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India	-
686	Analysis of bulk queue with additional optional service, vacation and unreliable server	Singh C.J., Kaur S., Jain M.	International Journal of Mathematics in Operational Research	2019	1	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	-
687	Design of GA and ontology based NLP frameworks for online opinion mining	Sharma M., Singh G., Singh R.	Recent Patents on Engineering	2019	1	Department of Computer Science and Applications, DAV University, Jalandhar, India; Department of Computer Science, GNDU, Amritsar, India	-
688	Influence of defect structure on colour tunability and magneto optical behaviour of WO <sub>3</sub> nanoforms	Kriti K., Kaur P., Kaur S., Arora D., Asokan K., Singh D.P.	RSC Advances	2019	1	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	-
689	Multi-targeting anticancer agents: Rational approaches, synthetic routes and structure activity relationship	Singh H., Kinarivala N., Sharma S.	Anti-Cancer Agents in Medicinal Chemistry	2019	4	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab- 143005, India; Sloan Kettering Institute, New York, NY 10065, United States	-
690	Defluoridation of water using micelle templated MCM-41: Adsorption and RSM studies	Kaur I., Gupta A., Singh B.P., Kumar R., Chawla J.	Journal of Water Supply: Research and Technology - AQUA	2019	1	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	-
691	Energy efficient e-healthcare framework using HWPSO-based clustering approach	Majumdar A., Laskar N.M., Biswas A., Sood S.K., Baishnab K.L.	Journal of Intelligent and Fuzzy Systems	2019	2	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	-
692	Liquid crystalline microspheres of azobenzene amphiphiles formed by thermally induced pH changes in binary water- hydrolytic ionic liquid media	Kang T.S., Morikawa M.-A., Kimizuka N.	Chemical Communications	2019	1	Department of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University, 744 Motoooka, 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 Motoooka, Nishi-ku Fukuoka, 819-0395, Japan	-
693	Comparison of UV spectrophotometric and HPLC method for estimating canagliflozin in bulk and a tablet dosage form	Singh D., Bedi N., Tiwary A.K.	Indian Journal of Pharmaceutical Sciences	2019	1	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	-
694	Role of porous carriers in the biopharmaceutical performance of solid SMEDDS of canagliflozin	Singh D., Tiwary A.K., Bedi N.	Recent Patents on Drug Delivery and Formulation	2019	3	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	-



695	Benzoflavone derivatives as potent antihyperuricemic agents	Singh J.V., Mal G., Kaur G., Gupta M.K., Singh A., Nepali K., Singh H., Sharma S., Bedi S.P.M.	MedChemComm	2019	9	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	-
696	Intelligent monitoring and controlling of public policies using social media and cloud computing	Singh P., Dwivedi Y.K., Kahlon K.S., Sawhney R.S.	IFIP Advances in Information and Communication Technology	2019	4	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	-
697	SNPs in 3'-UTR region of MBL2 increases susceptibility to recurrent vulvovaginal infections by altering sMBL levels	Kalia N., Singh J., Sharma S., Kaur M.	Immunobiology	2019	6	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	-
698	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	Singh K., Kaur P., Devra S., Kaur G.	Optik	2019	1	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, India	-
699	Improved mutation-based particle swarm optimization for load balancing in cloud data centers	Sethi N., Singh S., Singh G.	Advances in Intelligent Systems and Computing	2019	3	IKG Punjab Technical University, Jalandhar, Punjab, India; Guru Nanak Dev University, Amritsar, Punjab, India	-
700	Effects of oblique angle deposition on structural, electrical and wettability properties of Bi thin films grown by thermal evaporation	Jain R.K., Kaur J., Arora S., Kumar A., Chawla A.K., Khanna A.	Applied Surface Science	2019	12	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	-
701	A comparative analysis of static and dynamic java bytecode watermarking algorithms	Kumar K., Kaur P.	Advances in Intelligent Systems and Computing	2019	-	Faculty of Science and Technology, ICFAI University, Baddi, HP, India; Department of Computer Science and Technology, Guru Nanak Dev University, Amritsar, India	-
702	Pharmacognostic characterization of Myrica esculenta leaves	Kabra A., Sharma R., Singla S., Kabra R., Baghel U.S.	Journal of Ayurveda and Integrative Medicine	2019	5	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	-
703	Correlation between lattice deformations and optical properties of Ni doped ZnO at dilute concentration	Kaur P., Rahul, Kaur S., Kriti, Arora D., Asokan K., Paul Singh D.	Materials Today: Proceedings	2019	-	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	-
704	2-layer and 3-layer fiber geometry model based analysis of refractive index sensitivity of long period fiber grating with reduced cladding	Prashar S., Singh S., Engles D., Kaushik S.	Journal of Optoelectronics and Advanced Materials	2019	-	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	-
705	Effects of plasma electron temperature and magnetic field on the propagation dynamics of Gaussian laser beam in weakly relativistic cold quantum plasma	Aggarwal M., Goyal V., Kashyap R., Kumar H., Gill T.S.	Laser and Particle Beams	2019	-	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	-
706	Structure elaboration of isoniazid: synthesis, in silico molecular docking and antimycobacterial activity of isoniazid-pyrimidine conjugates	Kaur H., Singh L., Chibale K., Singh K.	Molecular Diversity	2019	1	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	-



707	Enhanced Performance Analysis of 10 Gbit/s-10 GHz OFDM- Based Radio over FSO Transmission System Incorporating ODSB and OSSB Modulation Schemes	Singh M., Dhasarathan V.	Journal of Optical Communications	2019	1	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	-
708	Environment friendly milling of Inconel-625	Singh P., Dureja J.S., Singh H., Bhatti M.S.	International Journal of Materials and Structural Integrity	2019	-	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	-
709	Cytotoxic effects of gold(i) complexes against colon, cervical and osteo carcinoma cell lines: A mechanistic approach	Sulaiman A.A.A., Kalia N., Bhatia G., Kaur M., Fettouhi M., Altaf M., Baig N., Kawde A.-N., Isab A.A.	New Journal of Chemistry	2019	1	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	-
710	Some approximate fixed point theorems without continuity of the operator using auxiliary functions	Chandok S., Ansari A.H., Narang T.D.	Mathematica Bohemica	2019	-	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	-
711	Synthesis of 2-acetylpyridine-N-substituted thiosemicarbazones of copper(ii) with high antimicrobial activity against methicillin resistant S. aureus, K. pneumoniae 1 and C. albicans	Kaushal M., Lobana T.S., Nim L., Bala R., Arora D.S., Garcia-Santos I., Duff C.E., Jasinski J.P.	New Journal of Chemistry	2019	2	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	-
712	Immunological impairment as a marker of 4-nonylphenol induced stress	Sharma M., Chadha P.	Indian Journal of Animal Sciences	2019	-	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 Vishwavidyalaya, Palampur, Himachal Pradesh, India	-
713	Design, synthesis, antimicrobial evaluation, and molecular modeling studies of novel indolinedione-coumarin molecular hybrids	Bhagat K., Bhagat J., Gupta M.K., Singh J.V., Gulati H.K., Singh A., Kaur K., Kaur G., Sharma S., Rana A., Singh H., Sharma S., Bedi P.M.S.	ACS Omega	2019	20	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	-
714	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	Aulakh J.K., Lobana T.S., Sood H., Arora D.S., Kaur R., Singh J., Garcia- Santos I., Kaur M., Jasinski J.P.	RSC Advances	2019	8	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	-
715	AMST-MAC: Adaptive sleeping multi-frames selective data transmission control for wireless sensor networks	Jain B., Brar G., Malhotra J.	International Journal of Advanced Intelligence Paradigms	2019	-	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	-
716	Diastereoselective approach to rationally design tetrahydro- $\beta$ -carboline-isatin conjugates as potential SERMs against breast cancer	Sharma B., Singh A., Gu L., Saha S.T., Singh-Pillay A., Cele N., Singh P., Kaur M., Kumar V.	RSC Advances	2019	8	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	-





717	Optimization of process parameters for preparation of rice extrudates from short and long Indica rice cultivars milled to varying degree of milling	Sandhu R.S., Singh N., Kaler R., Singh B.	Journal of Food Science and Technology	2019	-	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	-
718	Performance evaluation of coated carbide tool during face milling of AISI 304 under different cutting environments	Singh P., Dureja J.S., Singh H., Bhatti M.S.	Materials Research Express	2019	2	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	-
719	Pulse proteins: secondary structure, functionality and applications	Shevkani K., Singh N., Chen Y., Kaur A., Yu L.	Journal of Food Science and Technology	2019	4	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	-
720	Ferrocene-appended pharmacophores: An exciting approach for modulating the biological potential of organic scaffolds	Singh A., Lumb I., Mehra V., Kumar V.	Dalton Transactions	2019	27	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	-
721	Comprehensive analysis of routing protocols surrounding underwater sensor networks (UWSNs)	Nayyar A., Puri V., Le D.-N.	Advances in Intelligent Systems and Computing	2019	9	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	-
722	Applications of Molecular Structural Aspects of Gemini Surfactants in Reducing Nanoparticle-Nanoparticle Interactions	Kaur R., Singh K., Khullar P., Gupta A., Ahluwalia G.K., Bakshi M.S.	Langmuir	2019	5	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	-
723	Triarylethylene-indolin-2,3-dione molecular conjugates: Design, synthesis, docking studies and anti-proliferation evaluation	Kumar S., Palma G., Perumal S., Kaur M., Singh-Pillay A., Raj R., Singh P., Kumar V.	RSC Advances	2019	2	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	-
724	Structural, dielectric and magnetic properties of Al-Mn substituted nano-sized M-type strontium hexagonal ferrites	Mohammed J., Hafeez H.Y., Tchouank Tekou Carol T., Sharma J., Isma'li U.T., Godara S.K., Srivastava A.K.	Materials Today: Proceedings	2019	3	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	-
725	Fabrication of plasmonic dye-sensitized solar cells using ion-implanted photoanodes	Kaur N., Mahajan A., Bhullar V., Singh D.P., Saxena V., Debnath A.K., Aswal D.K., Devi D., Singh F., Chopra S.	RSC Advances	2019	2	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	-
726	Persistent Dimer Emission in Thermally Activated Delayed Fluorescence Materials	Etherington M.K., Kukhta N.A., Higginbotham H.F., Danos A., Bismillah A.N., Graves D.R., McGonigal P.R., Haase N., Morherr A., Batsanov A.S., Pflumm C., Bhalla V., Bryce M.R., Monkman A.P.	Journal of Physical Chemistry C	2019	2	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	-



727	Structural and magnetic investigations of a binuclear coordination compound of dysprosium(iii) dinitrobenzoate	Sran B.S., Gonzalez J.F., Montigaud V., Le Guennic B., Pointillart F., Cador O., Hundal G.	Dalton Transactions	2019	1	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	-
728	Synthesis, anti-mycobacterial and cytotoxic evaluation of substituted isoindoline-1,3-dione-4-aminoquinolines coupled: Via alkyl/amide linkers	Rani A., Viljoen A., Johansen M.D., Kremer L., Kumar V.	RSC Advances	2019	4	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	-
729	A benzimidazolyl terpyridine-Fe 2+ system and its recognition driven molecular model of a traffic light	Sonkar A.K., Rai A., Tripathi K., Sharma P., Roesky H.W., Drew M.G.B., Mishra L.	Dalton Transactions	2019	-	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	-
730	Study of obliquely propagating electron acoustic shock waves with non-extensive electron population	Bansal S., Aggarwal M., Gill T.S.	Plasma Science and Technology	2019	4	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	-
731	Pathological perturbations in diabetic retinopathy: Hyperglycemia, AGEs, oxidative stress and inflammatory pathways	Sahajpal N.S., Goel R.K., Chaubey A., Aurora R., Jain S.K.	Current Protein and Peptide Science	2019	15	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	-
732	Synthesis, spectroscopic characterization and in vitro cytotoxic as well as docking studies of cis-diammine platinum(II) complexes of thiones	Jomaa M.Y., Ahmad S., Seliman A.A.A., Popoola S.A., Shaikh A.R., Al-Saadi A.A., Bhatia G., Singh J., Isab A.A.	Inorganica Chimica Acta	2019	1	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	-
733	Aqueous systems of a surface active ionic liquid having an aromatic anion: Phase behavior, exfoliation of graphene flakes and its hydrogelation	Kaur M., Singh G., Damarla K., Singh G., Wang H., Wang J., Aswal V.K., Kumar A., Kang T.S.	Physical Chemistry Chemical Physics	2019	1	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	-
734	Pre-clinical and cellular toxicity evaluation of 7-methylxanthine: an investigational drug for the treatment of myopia	Singh H., Sahajpal N.S., Singh H., Vanita V., Roy P., Paul S., Singh S.K., Kaur I., Jain S.K.	Drug and Chemical Toxicology	2019	1	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India; Department of Biotechnology, Indian Institute of Technology, Roorkee, India; Department of Pathology, Government Medical College, Amritsar, India; Cancer Pharmacology Division, Indian Institute of Integrative Medicine, Jammu, India; Department of Ophthalmology, Baba Farid University of Health Sciences, Punjab, India	-
735	Response of phenylpropanoid pathway and the role of polyphenols in plants under abiotic stress	Sharma A., Shahzad B., Rehman A., Bhardwaj R., Landi M., Zheng B.	Molecules	2019	65	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	-



736	Structural, Dielectric, and Magneto-Optical Properties of Al-Cr Substituted M-Type Barium Hexaferrite	Carol Trudel T.T., Mohammed J., Hafeez H.Y., Bhat B.H., Godara S.K., Srivastava A.K.	Physica Status Solidi (A) Applications and Materials Science	2019	6	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	-
737	Structural, dielectric, and magneto-optical properties of Cu <sup>2+</sup> -Er <sup>3+</sup> substituted nanocrystalline strontium hexaferrite	Mohammed J., Hafeez H.Y., Tchouank Tekou Carol T., Ndikilar C.E., Sharma J., Maji P.K., Godara S.K., Srivastava A.K.	Materials Research Express	2019	12	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	-
738	An empirical evaluation of an advanced version control tool in conflict detection and resolution	Kaur I., Kaur P., Singh H.	International Journal of Computers and Applications	2019	-	Department of Computer Science, Guru Nanak Dev University, Amritsar, India	-
739	Investigation of bismuth borate glass system modified with barium for structural and gamma-ray shielding properties	Kaur P., Singh K.J., Thakur S., Singh P., Bajwa B.S.	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2019	88	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, Guru Nanak Dev University College Verka, Amritsar, Punjab 143501, India	-
740	Cascade recognition of Hg <sup>2+</sup> and cysteine using a naphthalene based ES IPT sensor and its application in a set/reset memorized device	Kaur N., Jindal G., Sukhvinder, Kumar S.	New Journal of Chemistry	2019	9	Department of Chemistry, Panjab University, Chandigarh, 160014, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	-
741	Fault Diagnosis in Wireless Sensor Networks - A Survey	Malhotra N., Bala M.	Proceedings - 4th International Conference on Computing Sciences, ICCS 2018	2019	-	Punjab Technical University, Lovely Professional University, Phagwara, Punjab, India; Khalsa College of Engineering and Technology, Amritsar, Punjab, India	-
742	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)	Kaur A., Kaur S., Sharma M., Kaur I.	Journal of Electroanalytical Chemistry	2019	4	Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
743	QRS detection of ECG signal using hybrid derivative and MaMeMi filter by effectively eliminating the baseline wander	Sheetal A., Singh H., Kaur A.	Analog Integrated Circuits and Signal Processing	2019	6	GNDU, Regional Campus, Gurdaspur, Punjab, India	-
744	Canagliflozin loaded SMEDDS: formulation optimization for improved solubility, permeability and pharmacokinetic performance	Singh D., Tiwary A.K., Bedi N.	Journal of Pharmaceutical Investigation	2019	18	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	-
745	Development of aqueous-based multi-herbal combination using principal component analysis and its functional significance in HepG2 cells	Kaur P., Robin, Mehta R.G., Singh B., Arora S.	BMC Complementary and Alternative Medicine	2019	9	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	-
746	The influence of substituents at C2/N1 atoms of pyridine-2- formaldehyde- benzaldehyde-N1- substituted thiosemicarbazones on the type of copper(I) complexes	Sharma R., Lobana T.S., Castineiras A., Butcher R.J., Akitsu T.	Polyhedron	2019	-	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	-
747	A Study of Data Threats and the Role of Cryptography Algorithms	Thapar S.S., Sarangal H.	2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference, IEMCON 2018	2019	3	Department of PGP, Indian Institute of Management Amritsar, Amritsar, India; Department of Electronics Communication Engineering, Guru Nanak Dev University RC Jalandhar, Jalandhar, India	-



748	Plasmodium falciparum protein 'pfj23' hosts distinct binding sites for major virulence factor 'pfemp1' and maurer's cleft marker 'pfsbp1'	Kaur J., Kumar V., Singh A.P., Singh V., Bisht A., Dube T., Panda J.J., Behl A., Mishra P.C., Hora R.	Pathogens and Disease	2019	1	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	-
749	Scanning electron microscopy for analysing maturity of compost/vermicompost from crop residue spiked with cattle dung, Azolla pinnata and Aspergillus terreus	Arora M., Kaur A.	Environmental Science and Pollution Research	2019	1	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
750	Connecting the dots between brand logo and brand image	Kaur H., Kaur K.	Asia-Pacific Journal of Business Administration	2019	-	Guru Nanak Dev University, Amritsar, India	-
751	Modulatory role of vermicompost and vermivash on growth, yield and nutritional profiling of Linum usitatissimum L. (Linseed): a field study	Makkar C., Singh J., Parkash C.	Environmental Science and Pollution Research	2019	1	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	-
752	Effect of crude extracts and purified compounds of Alpinia galanga on nutritional physiology of a polyphagous lepidopteran pest, Spodoptera litura (Fabricius)	Datta R., Kaur A., Saraf I., Singh I.P., Kaur S.	Ecotoxicology and Environmental Safety	2019	13	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	-
753	Emotional intelligence: a analytical study of basketball players	Paul M.	International Journal of Current Research and Review	2019	-	Department of Physiotherapy, Guru Nanak Dev University, Amritsar, Punjab, India	-
754	Design and Performance Analysis of 2x2 electro-optic based MZI switch using Ti:LiNbO <sub>3</sub> as a waveguide at 1.46µm	Kaur S., Singh M., Priyanka, Singh H., Singh M.L.	Proceedings of 2019 3rd IEEE International Conference on Electrical, Computer and Communication Technologies, ICECCT 2019	2019	-	Dept of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	-
755	Forensic Based Cloud Computing Architecture-Exploration and Implementation	Bhatia S., Malhotra J.	2019 Proceedings of the 3rd International Conference on Computing and Communications Technologies, ICCCT 2019	2019	-	Department of Computer Science, Guru Nanak Dev University, Amritsar, 143005, India; Faculty of Engineering and Technology, Guru Nanak Dev University, Amritsar, 143005, India	-
756	Influence of heat-moisture treatment (HMT) on physicochemical and functional properties of starches from different Indian oat (Avena sativa L.) cultivars	Kaur M., Singh S.	International Journal of Biological Macromolecules	2019	11	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	-
757	Rationally designed molecules for resurgence of cyanide mitigated cytochrome c oxidase activity	Kaur H., Singh P.	Bioorganic Chemistry	2019	-	Department of Chemistry, UGC Sponsored Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India	-
758	A comparative study for the selection of an entropy technique to classify bearing faults	Singh Minhas A., Sharma N., Kankar P.K., Singh S.	Proceedings of 2019 3rd IEEE International Conference on Electrical, Computer and Communication Technologies, ICECCT 2019	2019	1	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	-
759	Synthesis, antimicrobial activity and high cell viability of copper derivatives of 2-thiouracil, purine-6-thione and 2,4,6-trimercaptotriazine	Aulakh J.K., Sharma S., Sood H., Arora D.S., Kaur M., Jasinski J.P., Lobana T.S.	Journal of Coordination Chemistry	2019	2	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	-



760	Evaluating novel fungal secretomes for efficient saccharification and fermentation of composite sugars derived from hydrolysate and molasses into ethanol	Brar K.K., Agrawal D., Chadha B.S., Lee H.	Bioresource Technology	2019	8	Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India; School of Environmental Sciences, University of Guelph, Guelph, ON N1G 2W1, Canada	-
761	A novel mutation in MERTK for rod-cone dystrophy in a North Indian family	Bhatia S., Kaur N., Singh I.R., Vanita V.	Canadian Journal of Ophthalmology	2019	2	Department of Human Genetics, Guru Nanak Dev University, Amritsar, India; Dr. Daljit Singh Eye Hospital, Amritsar, India	-
762	Global transcriptional insights of pollen-pistil interactions commencing self-incompatibility and fertilization in tea [camellia sinensis (L.) O. kuntze]	Seth R., Bhandawat A., Parmar R., Singh P., Kumar S., Sharma R.K.	International Journal of Molecular Sciences	2019	3	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	-
763	24-Epibrassinolide application in plants: An implication for improving drought stress tolerance in plants	Tanveer M., Shahzad B., Sharma A., Khan E.A.	Plant Physiology and Biochemistry	2019	23	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	-
764	Structure of lead tellurite glasses and its relationship with stress-optic properties	Kaur A., Hirdesh, Khanna A., Fábán M., Krishna P.S.R., Shinde A.B.	Materials Research Bulletin	2019	5	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	-
765	Plant growth promoting rhizobacteria induced Cd tolerance in Lycopersicon esculentum through altered antioxidative defense expression	Khanna K., Jamwal V.L., Kohli S.K., Gandhi S.G., Ohri P., Bhardwaj R., Abd Allah E.F., Hashem A., Ahmad P.	Chemosphere	2019	17	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	-
766	Pollution assessment of heavy metals in soils of India and ecological risk assessment: A state-of-the-art	Kumar V., Sharma A., Kaur P., Singh Sidhu G.P., Bali A.S., Bhardwaj R., Thukral A.K., Cerda A.	Chemosphere	2019	68	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	-
767	Elemental Composition of Plants and Multivariate Analysis	Kumar V., Sharma A., Bhardwaj R., Thukral A.K.	National Academy Science Letters	2019	2	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
768	A review on fate and remediation techniques of oil spills	Kumari A., Kaur R., Kaur R.	International Journal of Research in Pharmaceutical Sciences	2019	1	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
769	Automated employee evaluation using fuzzy and neural network synergism through IoT assistance	Dhir K., Chhabra A.	Personal and Ubiquitous Computing	2019	2	Guru Nanak Dev University, Amritsar, Punjab, India	-
770	Effects of incorporation of groundnut oil and hydrogenated fat on pasting and dough rheological properties of flours from wheat varieties	Katyal M., Singh N., Singh H.	Journal of Food Science and Technology	2019	3	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	-
771	Effect of native and gelatinized starches from various sources on sponge cake making characteristics of wheat flour	Bajaj R., Singh N., Kaur A.	Journal of Food Science and Technology	2019	4	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	-



772	A comparative study for removal of cadmium(II) ions using unmodified and NTA-modified Dendrocalamus strictus charcoal powder	Saini S., Katnoria J.K., Kaur I.	Journal of Environmental Health Science and Engineering	2019	3	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	-
773	Influence of Phosphate-Based Salts on Enthalpy of Dilution and Isentropic Compressibility Properties of Saccharides and Their Derivatives in Aqueous Solutions	Aggarwal N., Sharma M., Banipal T.S., Banipal P.K.	Journal of Chemical and Engineering Data	2019	2	Department of Chemistry, Gandhi Memorial National College, Ambala Cantt, Haryana, 133001, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
774	Hard, medium-hard and extraordinarily soft wheat varieties: Comparison and relationship between various starch properties	Katyal M., Singh N., Chopra N., Kaur A.	International Journal of Biological Macromolecules	2019	6	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	-
775	Antimicrobial Potential of Fungal Endophytes from Moringa oleifera	Arora D.S., Kaur N.	Applied Biochemistry and Biotechnology	2019	1	Microbial Technology Laboratory, Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India	-
776	Excitation wavelength based reversible multicolour photoluminescence by a single chromophore upon aggregation: Detection of picric acid-application in bioimaging	Kaur I., Sharma V., Mobin S.M., Kaur P., Singh K.	Sensors and Actuators, B: Chemical	2019	12	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	-
777	Performance evaluation of newly constructed NZCC for SAC- OCDMA using direct detection technique	Nisar K.S., Sarangal H., Thapar S.S.	Photonic Network Communications	2019	6	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	-
778	Association of SELP Polymorphisms with Soluble P-Selectin Levels and Vascular Risk in Patients with Type 2 Diabetes Mellitus: A Case-Control Study	Kaur R., Singh J., Kapoor R., Kaur M.	Biochemical Genetics	2019	4	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	-
779	Understanding the mechanism of adsorption of CTAB and polylysine on silver nanoparticles and detection of Hg 2+ : Experimental and DFT study	Moudgil L., Jaiswal J., Mittal A., Saini G.S.S., Singh G., Kaura A.	Journal of Molecular Liquids	2019	5	Department of Physics, Centre of Advanced Study in Physics, Panjab University, Chandigarh, 160014, India; Institute Instrumentation Centre, Indian Institute of Technology Roorkee-247667, 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	-
780	Antioxidant Potential and Extracellular Auxin Production by White Rot Fungi	Chandra P., Arora D.S., Pal M., Sharma R.K.	Applied Biochemistry and Biotechnology	2019	5	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	-
781	Molecular interaction between human SUMO-I and histone like DNA binding protein of Helicobacter pylori (Hup) investigated by NMR and other biophysical tools	Jaiswal N., Agarwal N., Kaur A., Tripathy S., Gahlay G.K., Arora A., Mitthu V.S., Poluri K.M., Kumar D.	International Journal of Biological Macromolecules	2019	3	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, Gurunank 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	-



782	Impact of transition metal ions on the structure and bioactivity of alkali-free bioactive glasses	Kapoor S., Brazete D., Pereira I.C., Bhatia G., Kaur M., Santos L.F., Banerjee D., Goel A., Ferreira J.M.F.	Journal of Non-Crystalline Solids	2019	5	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	-
783	Purification and characterization of actinomycins from Streptomyces strain M7 active against methicillin resistant Staphylococcus aureus and vancomycin resistant Enterococcus	Sharma M., Manhas R.K.	BMC Microbiology	2019	4	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
784	Self-assembly and supramolecular isomerism in copper (II) coordination compounds of pyridine-4-carboxamide based ligand	Sran B.S., Sharma S., Hundal G.	Inorganica Chimica Acta	2019	2	Department of Chemistry, UGC Sponsored-Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
785	Core-insertion of palladium in naphthalenediimides: Opto- electronic properties, structural insights and coupling studies	Bansal D., Kumar Y., Rustam, Kumar S., Mandal K., Hundal G., Mukhopadhyay P.	Inorganica Chimica Acta	2019	2	Supramolecular and Material Chemistry Lab, School of Physical Sciences, Jawaharlal Nehru University Delhi 110067, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
786	Lightweight SrM/CCTO/rGO nanocomposites for optoelectronics and K u band microwave absorption	Mohammed J., Tekou Carol T., Hafeez H.Y., Basandrai D., Bhadu G.R., Godara S.K., Narang S.B., Srivastava A.K.	Journal of Materials Science: Materials in Electronics	2019	14	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	-
787	Assessment of spatio-temporal variation in pond water quality: A case study	Rajput S., Arora S., Kaur R.	Indian Journal of Environmental Protection	2019	-	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143 005, India	-
788	Negative effect of non-host protease inhibitors partially purified from Cassia glauca seeds on developmental physiology of Spodoptera litura	Vasudev A., Sohal S.K.	International Journal of Tropical Insect Science	2019	1	Department of Zoology (DST-FIST sponsored), Insect Physiology Laboratory, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
789	Temperature sensor based on exfoliated graphene sheets produced by microwave assisted freezing induced volumetric expansion of carbonated water	Kaur A., Singh R.C.	Journal of Materials Science: Materials in Electronics	2019	4	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
790	Synthesis and fabrication of zinc oxide nanostrands based piezoelectric nanogenerator	Kaur J., Singh H.	Journal of Materials Science: Materials in Electronics	2019	3	Guru Nanak Dev University, Amritsar, Punjab 143001, India	-
791	Investigation of $\gamma$ ray shielding, structural and dissolution rate studies of alkali based bismuth borate glass systems with MoO <sub>3</sub> added	Dogra M., Singh K.J., Kaur K.	Radiochimica Acta	2019	1	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-



792	An intelligent validation system for diagnostic and prognosis of ultrasound fetal growth analysis using Neuro-Fuzzy based on genetic algorithm	Kaur P., Singh G., Kaur P.	Egyptian Informatics Journal	2019	3	Department of Computer Engineering & Technology, Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India	-
793	Dust-acoustic solitary waves and shocks in nonthermal plasmas	Misra A.P., Saini N.S.	2019 URSI Asia-Pacific Radio Science Conference, AP-RASC 2019	2019	-	Visva-Bharati University, Santiniketan, 731235, India; Guru Nanak Dev University, Amritsar, 143005, India	-
794	Plagiarism: An essay in terminology	Satija M.P., Martínez-ávila D.	DESIDOC Journal of Library and Information Technology	2019	1	Department of Library and Information Science, Guru Nanak Dev University, Amritsar, 143005, India; Department of Information Science, São Paulo State University (UNESP), Marília, Brazil	-
795	A hydrolase with esterase activity expressed from a fosmid gene bank prepared from DNA of a North West Himalayan glacier frozen soil sample	Gupta V., Singh I., Kumar P., Rasool S., Verma V.	3 Biotech	2019	1	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	-
796	Evaluation of genotoxic and cytotoxic effects of ethyl acetate extract of <i>Aspergillus flavus</i> on <i>Spodoptera litura</i>	Kaur M., Chadha P., Kaur S., Kaur A., Kaur R., Yadav A.K., Kaur R.	Journal of Applied Microbiology	2019	5	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	-
797	Distribution of angiotensin converting enzyme gene (insertion/deletion) polymorphism in Indian populations	Singh G., Bhanwer A.J.S.	Gene Reports	2019	1	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Anthropology, Panjab University, Chandigarh, 160014, India	-
798	Highly sensitive gas sensor based on Er-doped SnO <sub>2</sub> nanostructures and its temperature dependent selectivity towards hydrogen and ethanol	Singh G., Virpal, Singh R.C.	Sensors and Actuators, B: Chemical	2019	31	Department of Applied Physics, Chandigarh University, Gharuan, Mohali, Punjab, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
799	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	Narang S.B., Arora A.	Journal of Magnetism and Magnetic Materials	2019	11	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; D.A.V. Institute of Engineering and Technology, Jalandhar, India	-
800	Uranium distribution in groundwater and assessment of age dependent radiation dose in Amritsar, Gurdaspur and Pathankot districts of Punjab, India	Sharma T., Sharma A., Kaur I., Mahajan R.K., Litoria P.K., Sahoo S.K., Bajwa B.S.	Chemosphere	2019	6	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	-
801	Role of plant growth promoting Bacteria (PGPRs) as biocontrol agents of <i>Meloidogyne incognita</i> through improved plant defense of <i>Lycopersicon esculentum</i>	Khanna K., Jamwal V.L., Kohli S.K., Gandhi S.G., Ohri P., Bhardwaj R., Wijaya L., Alyemeni M.N., Ahmad P.	Plant and Soil	2019	8	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	-
802	Tuning the dielectric and optical properties of Pr-Co-substituted calcium copper titanate for electronics applications	Mohammed J., Carol T. T.T., Hafeez H.Y., Adamu B.I., Wudil Y.S., Takai Z.I., Godara S.K., Srivastava A.K.	Journal of Physics and Chemistry of Solids	2019	21	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, Amritsar, 143005, India	-





803	Recent developments in biological aspects of chalcones: the odyssey continues	Rani A., Anand A., Kumar K., Kumar V.	Expert Opinion on Drug Discovery	2019	9	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	-
804	Elevated oxidative DNA damage in patients with coronary artery disease and its association with oxidative stress biomarkers	Bhat M.A., Gandhi G.	Acta Cardiologica	2019	2	Department of Human Genetics, Guru Nanak Dev University, Amritsar, India	-
805	Diversity in protein secondary structure, molecular weight, mineral and amino acid composition of lentil and horse gram germplasm	Ghumman A., Singh N., Kaur A., Rana J.C.	Journal of Food Science and Technology	2019	1	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	-
806	Efficient and Fast Copy Move Image Forgery Detection Technique	Kaur K.	Proceedings of the 2nd International Conference on Intelligent Computing and Control Systems, ICICCS 2018	2019	-	Guru Nanak Dev University (GNDU), Amritsar, India	-
807	Complexation Behavior of $\beta$ -Lactoglobulin with Surface Active Ionic Liquids in Aqueous Solutions: An Experimental and Computational Approach	Singh G., Singh G., Kancharla S., Kang T.S.	Journal of Physical Chemistry B	2019	3	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	-
808	Cd induced generation of free radical species in Brassica juncea is regulated by supplementation of earthworms in the drilosphere	Kaur P., Bali S., Sharma A., Kohli S.K., Vig A.P., Bhardwaj R., Thukral A.K., Abd-Allah E.F., Wijaya L., Alyemeni M.N., Ahmad P.	Science of the Total Environment	2019	10	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	-
809	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	Kaur H., Kaur M., Walia P.K., Kumar M., Bhalla V.	Chemistry - An Asian Journal	2019	4	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, India	-
810	Evaluating groundwater for its probable mutagenicity and genotoxicity using in vitro bioanalytical tools	Kaur T., Bhardwaj R., Arora S.	Exposure and Health	2019	-	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
811	A morphologically robust chaotic map based approach to embed patient's confidential data securely in non-QRS regions of ECG signal	Soni N., Saini I., Singh B.	Australasian Physical and Engineering Sciences in Medicine	2019	1	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	-
812	A comparative study of phytochemicals, antioxidant potential and in-vitro DNA damage protection activity of different oat (Avena sativa) cultivars from India	Singh S., Kaur M., Sogi D.S., Purewal S.S.	Journal of Food Measurement and Characterization	2019	4	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Biotechnology, Chaudhary Devi Lal University, Sirsa, Haryana, India	-
813	Millet: a cereal grain with potent antioxidants and health benefits	Kaur P., Purewal S.S., Sandhu K.S., Kaur M., Salar R.K.	Journal of Food Measurement and Characterization	2019	6	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	-



814	Estradiol attenuates ischemia reperfusion-induced acute kidney injury through PPAR- $\gamma$ stimulated eNOS activation in rats	Singh A.P., Singh N., Pathak D., Bedi P.M.S.	Molecular and Cellular Biochemistry	2019	4	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	-
815	Coronene diimide-based self-assembled (fibre-to-disc) fluorescent aggregates for visualization of latent fingerprints	Kumar K., Singh H., Vanita V., Singh R., Joshi K.B., Bhargava G., Kumar S., Singh P.	Sensors and Actuators, B: Chemical	2019	8	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	-
816	Thermally Stable Ionic Liquid-Based Microemulsions for High-Temperature Stabilization of Lysozyme at Nanointerfaces	Kaur M., Singh G., Kaur A., Sharma P.K., Kang T.S.	Langmuir	2019	1	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	-
817	In vitro evaluation of the $\alpha$ -glucosidase inhibitory potential of methanolic extracts of traditionally used antidiabetic plants	Bhatia A., Singh B., Arora R., Arora S.	BMC Complementary and Alternative Medicine	2019	4	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	-
818	Secure techniques for the UAV networks: A review	Padam R., Malhotra J.	2018 International Conference on Computing, Power and Communication Technologies, GUCON 2018	2019	-	Masters of Technology, Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India	-
819	Antimicrobial potential of pomegranate peel: a review	Singh B., Singh J.P., Kaur A., Singh N.	International Journal of Food Science and Technology	2019	12	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	-
820	Physicochemical evaluation of corn extrudates containing varying buckwheat flour levels prepared at various extrusion temperatures	Singh J.P., Kaur A., Singh B., Singh N., Singh B.	Journal of Food Science and Technology	2019	5	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	-
821	Innovative behavioral techniques to reduce stress among vii grade learners	Kauts D.S., Kapatia P.	International Journal of Recent Technology and Engineering	2019	-	Guru Nanak Dev University, Tf-40, Gndu Campus, Amritsar, 143005, India; Guru Nanak Dev University, Amritsar, India	-
822	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	Singh M., Malhotra J.	Optical Engineering	2019	5	Guru Nanak Dev University, Regional Campus, Department of Electronics and Communication Engineering, Jalandhar, India	-
823	Effect of tungsten doping on structural and optical properties of rutile TiO <sub>2</sub> and band gap narrowing	Singh J., Sharma S., Sharma S., Singh R.C.	Optik	2019	13	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
824	Effect of high-intensity ultrasound treatment on nutritional, rheological and structural properties of starches obtained from different cereals	Kaur H., Gill B.S.	International Journal of Biological Macromolecules	2019	7	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	-
825	IoT-fog-based healthcare framework to identify and control hypertension attack	Sood S.K., Mahajan I.	IEEE Internet of Things Journal	2019	13	Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus Gurdaspur, Gurdaspur, 143521, India	-



826	Anatomization of Detection and Performance Measures Techniques for Flooding Attacks using Routing Protocols in MANETs	Mintu, Singh G., Malhi S.S., Mahajan M., Batra S., Bath R.S.	2019 International Conference on Automation, Computational and Technology Management, ICACTM 2019	2019	1	Guru Nanak Dev University, Punjab, India; Lovely Professional University, Punjab, India	-
827	A review of different cost-based distributed query optimizers	Sharma M., Singh G., Singh R.	Progress in Artificial Intelligence	2019	5	Department of Computer Science and Applications, DAVU, Jalandhar, India; Department of Computer Science, GNDU, Amritsar, Punjab, India	-
828	Myxococcus xanthus truncated globin HbO: in silico analysis and functional characterization	Singh S.K., Kaur R., Kumar A., Kaur R.	Molecular Biology Reports	2019	-	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	-
829	Fabrication of sensitive SWCNT sensor for trace level detection of reducing and oxidizing gases (NH <sub>3</sub> and NO <sub>2</sub> ) at room temperature	Lone M.Y., Kumar A., Husain S., Singh R.C., Zulfeqar M., Husain M.	Physica E: Low-Dimensional Systems and Nanostructures	2019	2	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	-
830	Inner membrane complex 11 protein of Plasmodium falciparum links membrane lipids with cytoskeletal element 'actin' and its associated motor 'myosin'	Kumar V., Behl A., Kapoor P., Nayak B., Singh G., Singh A.P., Mishra S., Kang T.S., Mishra P.C., Hora R.	International Journal of Biological Macromolecules	2019	-	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	-
831	Development and validation of a stability indicating UV-spectrophotometric assay method for the determination of naratriptan hydrochloride	Gupta A., Kumar J., Narang J.K., Verma S., Singh H., Haque A.	Pertanika Journal of Science and Technology	2019	-	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, Kharj, Saudi Arabia; IKGT university, Jalandhar, Punjab, India	-
832	Quality of Service (QoS) Aware Workflow Scheduling (WFS) in Cloud Computing: A Systematic Review	Kaur S., Bagga P., Hans R., Kaur H.	Arabian Journal for Science and Engineering	2019	8	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	-
833	A novel fused coupled chaotic map based confidential data embedding-then-encryption of electrocardiogram signal	Pandey A., Singh B., Saini B.S., Sood N.	Biocybernetics and Biomedical Engineering	2019	2	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	-
834	Thermostable xylanases from thermophilic fungi and bacteria: Current perspective	Chadha B.S., Kaur B., Basotra N., Tsang A., Pandey A.	Bioresource Technology	2019	18	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	-
835	Effect of chickpea and spinach on extrusion behavior of corn grit	Shevkani K., Singh N., Rattan B., Singh J.P., Kaur A., Singh B.	Journal of Food Science and Technology	2019	-	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	-
836	Comprehensive investigation of structural, dielectric and local piezoelectric properties of KNN ceramics	Kumari P., Lal M., Kumar S., Rai R., Singh A., Karpinsky D.V., Bdiin I.	Journal of Advanced Dielectrics	2019	1	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 mET, Zelenograd Moscow, 124498, Russian Federation; TEMA-NRD, Mechanical Engineering Department and Aveiro, Institute of Nanotechnology (AIN), University of Aveiro, Aveiro, 3810-193, Portugal	-



837	Design of nano-sized Pr <sub>3</sub> –Co <sub>2</sub> –substituted M-type strontium hexaferrites for optical sensing and electromagnetic interference (EMI) shielding in Ku band	Mohammed J., Trudel T.T.C., Hafeez H.Y., Basandrai D., Bhadu G.R., Godara S.K., Narang S.B., Srivastava A.K.	Applied Physics A: Materials Science and Processing	2019	9	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	-
838	Self-focusing of q-Gaussian laser beam in relativistic plasma under the effect of light absorption	Kashyap R., Aggarwal M., Gill T.S., Arora N.S., Kumar H., Moudhgill D.	Optik	2019	-	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	-
839	Sikh ethnonationalism and militancy: manifestation and prognosis	Deol S.S.	Asian Ethnicity	2019	1	Department of Political Science, Guru Nanak Dev University, Amritsar, Punjab, India	-
840	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	Kumar S., Pal J., Kaur S., Malhi P.S., Singh M., Babu P.D., Singh A.	Journal of Asian Ceramic Societies	2019	6	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	-
841	Performance comparison of coated carbide tool under different cooling/lubrication environments during face milling of Inconel-625 and Stainless Steel 304	Singh P., Dureja J.S., Singh H., Bhatti M.S.	World Journal of Engineering	2019	1	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	-
842	Structural and dielectric properties of (BaxMg1–x)(Ti0.95Sn0.05)O3 (x = 0.025, 0.05, 0.075 and 0.1) solid solutions	Singh J., Bahel S.	Journal of Materials Science: Materials in Electronics	2019	3	Department of Electronic Technology, Guru Nanak Dev University, Amritsar, Punjab, India	-
843	Structure of xMoO3-(100-x)TeO2 glasses by neutron diffraction and Reverse Monte Carlo modeling	Khanna A., Kaur A., Fábán M., Krishna P.S.R., Shinde A.B.	Materials Research Express	2019	1	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	-
844	Cationic Pd(II) catalyzed regioselective intramolecular hydroarylation for the efficient synthesis of 4-aryl-2- quinolones	Singh K., Malviya B.K., Verma V.P., Badsara S.S., Bhardwaj V.K., Sharma S.	Tetrahedron	2019	7	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	-
845	Impact of roasting and extraction methods on chemical properties, oxidative stability and Maillard reaction products of peanut oils	Suri K., Singh B., Kaur A., Singh N.	Journal of Food Science and Technology	2019	6	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	-
846	Performance analysis and comparison of parallel computing frameworks: Sips and openmp	Kaur L., Kumar A.	2019 International Conference on Intelligent Computing and Control Systems, ICCS 2019	2019	-	GNDU, CSE Department, Asr, India	-



847	Characterization of a cold-active, detergent-stable metalloproteinase purified from <i>Bacillus</i> sp. S1D1 10 using Response Surface Methodology	Singh D., Thakur S., Thayil S.M., Kesavan A.K.	PLoS ONE	2019	2	Molecular Microbiology Lab, Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India	-
848	Evaluation of pasting and dough rheological properties of composite flours made from flour varied in gluten strength	Katyal M., Kaur A., Singh N.	Journal of Food Science and Technology	2019	1	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	-
849	Imaging of lysosomal activity using naphthalimide- benzimidazole based fluorescent probe in living cells	Sharma P., Gupta N., Kaur S., Kaur S., Ohri P., Parihar R.D., Bhalla V., Kumar M.	Sensors and Actuators, B: Chemical	2019	4	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	-
850	Genotypic-Phenotypic Screening of Galectin-3 in Relation to Risk Towards Rheumatoid Arthritis in North Indian Population	Kaur T., Thakur K., Singh J., Arora S., Kaur M.	Archives of Medical Research	2019	-	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	-
851	Effect of three-step calcination on structural, magnetic and microwave properties of BaFe <sub>11.5</sub> Ti <sub>0.5</sub> O <sub>19</sub> hexaferrite	Mahadevan S., Narang S.B., Sharma P.	Ceramics International	2019	6	School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	-
852	Assessment of radon and potentially toxic metals in agricultural soils of Punjab, India	Kaur I., Gupta A., Singh B.P., Sharma S., Kumar A.	Microchemical Journal	2019	9	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	-
853	Biomass derived hierarchical porous carbon materials as oxygen reduction reaction electrocatalysts in fuel cells	Kaur P., Verma G., Sekhon S.S.	Progress in Materials Science	2019	24	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	-
854	Rheological and pasting behavior of OSA modified mungbean starches and its utilization in cake formulation as fat replacer	Punia S., Siroha A.K., Sandhu K.S., Kaur M.	International Journal of Biological Macromolecules	2019	10	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	-
855	Complexity sorting and coupled chaotic map based on 2D ECG data compression-then-encryption and its OFDM transmission with impair sample correction	Pandey A., Saini B.S., Singh B., Sood N.	Multimedia Tools and Applications	2019	4	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	-
856	Selenium modulates dynamics of antioxidative defence expression, photosynthetic attributes and secondary metabolites to mitigate chromium toxicity in <i>Brassica juncea</i> L. plants	Handa N., Kohli S.K., Sharma A., Thukral A.K., Bhardwaj R., Abd_Allah E.F., Alqarawi A.A., Ahmad P.	Environmental and Experimental Botany	2019	23	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	-
857	Persistent Dimer Emission in Thermally Activated Delayed Fluorescence Materials	Etherington M.K., Kukhta N.A., Higginbotham H.F., Danos A., Bismillah A.N., Graves D.R., McGonigal P.R., Haase N., Morherr A., Batsanov A.S., Pflumm C., Bhalla V., Bryce M.R., Monkman A.P.	Journal of Physical Chemistry C	2019	21	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	-



858	Exploring the Role of Consecutive Addition of Nitrogen Atoms on Stability and Reactivity of Hydrogen-Bonded Azine-Water Complexes	Chopra N., Chopra G., Kaur D.	ACS Omega	2019	1	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	-
859	Structure-property correlations in molybdenum trioxide thin films and nanoparticles	Bhatia S., Khanna A., Jain R.K., Hirdesh	Materials Research Express	2019	1	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Physics, BBKDAV College for Women, Amritsar, Punjab, 143005, India	-
860	Effect of induced transportation stress in goats supplemented with vitamin C and jaggery during hot dry season	Ahmad Mir N., Ashutosh A., Ahmad Shergojoy S., Ahmed Wani S., Ahmad Sheikh F.	Biological Rhythm Research	2019	1	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	-
861	Unprecedented synthesis of symmetrical azines from alcohols and hydrazine hydrate using nickel based NNN-pincer catalyst: An experimental and computational study	Shiekh B.A., Kaur D., Godara S.K.	Catalysis Communications	2019	5	Department of Chemistry, UGC Sponsored Centre of Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India	-
862	Dielectric and microwave reflection properties of M-phase LNT (Li-Nb-Ti-O) solid solutions in X-band frequency range	Singh R., Bahel S., Narang S.B.	Journal of Alloys and Compounds	2019	3	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India	-
863	Exploring the bank selection criteria in India: scale development and validation	Arora S., Kaur H.	International Journal of Bank Marketing	2019	-	Department of Commerce, Guru Nanak Dev University, Amritsar, India	-
864	Impact of SNPs interplay across the locus of MBL2, between MBL and Dectin-1 gene, on women's risk of developing recurrent vulvovaginal infections	Kalia N., Singh J., Sharma S., Kaur M.	Cell and Bioscience	2019	3	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	-
865	Exploration of carbohydrate binding behavior and anti- proliferative activities of Arisaema tortuosum lectin	Thakur K., Kaur T., Kaur M., Hora R., Singh J.	BMC Molecular Biology	2019	1	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. Sirmour, Nahan H.P., 173001, India	-
866	Multi-response optimization in environment friendly turning of AISI 304 austenitic stainless steel	Singh T., Dureja J.S., Dogra M., Bhatti M.S.	Multidiscipline Modeling in Materials and Structures	2019	3	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	-
867	Structural, optical and thermal properties of nickel doped bismuth borate glasses	Thakur S., Thakur V., Kaur A., Singh L.	Journal of Non-Crystalline Solids	2019	21	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
868	Effect of structural and thermal disorder on the optical band gap energy of Cr2O3 nanoparticles	Singh J., Verma V., Kumar R., Sharma S., Kumar R.	Materials Research Express	2019	1	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	-
869	Characterization of a novel Lytic Polysaccharide Monooxygenase from Malbranchea cinnamomea exhibiting dual catalytic behavior	Basotra N., Dhiman S.S., Agrawal D., Sani R.K., Tsang A., Chadha B.S.	Carbohydrate Research	2019	7	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	-



870	Analytical mapping of research on disaster management, types and role of ICT during 2011–2018	Kaur A., Sood S.K.	Environmental Hazards	2019	3	Department of Computer Science and Engineering, Guru Nanak Dev University, Gurdaspur, India	-
871	Ultra-morphology of the scale as an indicator of the stress of Acid Black -1 (AB-1, CI: 20470) and zinc (Zn)	Kaur R., Kaur A., Kaur K.	Environmental Science and Pollution Research	2019	-	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Zoology, Khalsa College, Amritsar, Punjab 143002, India	-
872	Nutrient recovery from pigeon dropping by using exotic earthworm <i>Eisenia fetida</i>	Singh S., Singh J., Kaur A., Kaur J., Vig A.P., Bhat S.A.	Sustainable Chemistry and Pharmacy	2019	3	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	-
873	Studies on intercropping of maize ( <i>zea mays</i> L.) with pea ( <i>Pisum sativum</i> L.) genotype	Aulakh G.S., Singh G., Singh A.	Indian Journal of Ecology	2019	-	Khalsa College, Amritsar, 143 002, India	-
874	Factors of stress amongst students of professional institutes	Preet K., Ahluwalia A.K.	Prabandhan: Indian Journal of Management	2019	-	Guru Nanak Dev University Regional Campus, Gurdaspur, Punjab 143 521, India	-
875	User assisted cooperative relaying in beamspace massive MIMO NOMA based systems for millimeter wave communications	Kaur J., Singh M.L.	China Communications	2019	2	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India	-
876	Effect of Composition of Board and Promoter Group Retained Ownership on Underpricing of Indian IPO firms: An Empirical Study	Anand R., Singh B.	Indian Journal of Corporate Governance	2019	-	University School of Financial Studies, Guru Nanak Dev University, Amritsar, Punjab, India	-
877	Traditional Indian sports – A case-control study on Kho Kho players investigating genomic instability and oxidative stress as a function of metabolic genotypes	Gandhi G., Sharma R., Kaur G.	Heliyon	2019	-	Department of Human Genetics, Guru Nanak Dev University, Amritsar, 143 005, India	-
878	Influence of grain size and porosity on X-band properties of Mn-Zr substituted Ni-Co ferrites	Pabby K., Bindra Narang S.	Materials Letters	2019	11	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
879	Re-powering technique to compare its suitability with on-demand distance vector routing protocols	Angurala M., Bala M., Bamber S.S.	International Journal of Innovative Technology and Exploring Engineering	2019	-	Punjab Technical University, Kapurthala, Punjab, India; Panjab University Swami Sarvanand Giri Regional, Centre Hoshiarpur Punjab, India; Khalsa College of Engineering and Technology, Amritsar, Punjab, India	-
880	Use of energy replenishment model to find optimum radio propagation model in wireless sensor networks	Angurala M., Bala M., Bamber S.S.	International Journal of Innovative Technology and Exploring Engineering	2019	-	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	-
881	In-vitro assessment of HA-Nb coating on Mg alloy ZK60 for biomedical applications	Singh B., Singh G., Sidhu B.S., Bhatia N.	Materials Chemistry and Physics	2019	13	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	-
882	Biomonitoring of genotoxicity of industrial wastes using plant bioassays	Bhat S.A., Cui G., Li F., Vig A.P.	Bioresource Technology Reports	2019	7	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	-
883	Biocontrol potential of <i>Distolabrellus veechi</i> isolate KPI (Nemata: Rhabditida) against cotton cutworm, <i>Spodoptera litura</i> (lepidoptera: Noctuidae)	Parihar R.D., Singh D., Verma V., Sohal S.K., Kesavan A.K., Ohri P.	Indian Journal of Nematology	2019	-	Department of Zoology, DAV University Jalandhar, India; Department of Botany, DAV University Jalandhar, India; Department of Zoology, Guru Nanak Dev University- Amritsar Punjab, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India	-
884	Opto-electric and physio-chemical changes in oxygen ion irradiated natural Vermiculite mineral	Kaur S., Singh S., Singh L.	Applied Radiation and Isotopes	2019	-	Department of Physics, Hindu College, Amritsar, Punjab 143005, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-



885	Spatially resolved X-ray fluorescence, Raman and photoluminescence spectroscopy of Eu 3+ /Er 3+ doped tellurite glasses and anti-glasses	Gupta N., Hirdeh, Kaur R., Khanna A., Singh S., Gupta B.K.	Journal of Non-Crystalline Solids	2019	8	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	-
886	Rheological behavior of wheat starch and barley resistant starch (type IV) blends and their starch noodles making potential	Punia S., Siroha A.K., Sandhu K.S., Kaur M.	International Journal of Biological Macromolecules	2019	10	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	-
887	Prospective of nuclear magnetic moment measurements by photofission reactions at ELI-NP	Kaur J., Balabanski D.L., Georgiev G., Constantin P.	Hyperfine Interactions	2019	-	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	-
888	Electromagnetic interference (EMI) shielding, microwave absorption, and optical sensing properties of BaM/CCTO composites in K u-band	Mohammed J., Tchouank Tekou Carol T., Hafeez H.Y., Basandrai D., Bhadu G.R., Godara S.K., Narang S.B., Srivastava A.K.	Results in Physics	2019	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; 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	-
889	Fibrous raw material of bamboo origin with improved fibrillation & spinnability	Kaur V., Chattopadhyay D., Kaur S., Kaur M.	Journal of the Textile Institute	2019	-	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	-
890	Do people virtually support their favorite cricket team? Insights from 2018 Asia Cup	Singh P., Kahlon K.S., Kaur H., Sawhney R.S.	ACM International Conference Proceeding Series	2019	-	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	-
891	Properties of octenyl succinic anhydride (OSA) modified starches and their application in low fat mayonnaise	Bajaj R., Singh N., Kaur A.	International Journal of Biological Macromolecules	2019	8	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
892	Elucidating the intermolecular hydrogen bonding interaction of proline with amides—quantum chemical calculations	Chopra G., Chopra N., Kaur D.	Structural Chemistry	2019	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India	-
893	Physicochemical, rheological, morphological and in vitro digestibility properties of pearl millet starch modified at varying levels of acetylation	Siroha A.K., Sandhu K.S., Kaur M., Kaur V.	International Journal of Biological Macromolecules	2019	5	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	-
894	Genetic variation and population structure of five ethnic groups from Punjab, North-West India: Analysis of MHC class I polymorphic Alu insertions (POLINs)	Singh G., Sandhu H.S., Sharma R., Srinivas Y., Matharoo K., Singh M., Bhanwer A.J.S.	Gene	2019	1	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	-
895	Role of P-type ATPase metal transporters and plant immunity induced by jasmonic acid against Lead (Pb) toxicity in tomato	Bali S., Jamwal V.L., Kaur P., Kohli S.K., Ohri P., Gandhi S.G., Bhardwaj R., Al-Huqail A.A., Siddiqui M.H., Ahmad P.	Ecotoxicology and Environmental Safety	2019	7	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	
896	Simulating longitudinal vibrations of coupled oscillator using the fourth-order Runge-Kutta method by programming spreadsheet	Singh I., Kaur B., Khun Khun K.	European Journal of Physics	2019	-	PG Department of Physics, Khalsa College, Amritsar, 143005, India; School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India	-
897	Bergapten Ameliorates Vincristine-Induced Peripheral Neuropathy by Inhibition of Inflammatory Cytokines and NFκB Signaling	Singh G., Singh A., Singh P., Bhatti R.	ACS Chemical Neuroscience	2019	2	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
898	Board composition and corporate reporting on internet: Indian evidence	Sandhu A., Singh B.	Journal of Financial Reporting and Accounting	2019	1	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India	-
899	Role of Gluten in Surface Chemistry: Nanometallic Bioconjugation of Hard, Medium, and Soft Wheat Protein	Mandial D., Khullar P., Gupta V., Kumar H., Singh N., Ahluwalia G.K., Bakshi M.S.	Journal of Agricultural and Food Chemistry	2019	-	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	-
900	Biohythane production in two-stage anaerobic digestion system	Hans M., Kumar S.	International Journal of Hydrogen Energy	2019	19	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	-
901	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	Singla P., Singh O., Sharma S., Betlem K., Aswal V.K., Peeters M., Mahajan R.K.	ACS Omega	2019	2	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	-
902	Chemical, thermal, rheological and FTIR studies of vegetable oils and their effect on eggless muffin characteristics	Kaur A., Singh B., Kaur A., Singh N.	Journal of Food Processing and Preservation	2019	3	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; P.G. Department of Biotechnology, Khalsa College, Amritsar, India	-
903	Effect of infrared roasting on antioxidant activity, phenolic composition and Maillard reaction products of Tartary buckwheat varieties	Bhinder S., Singh B., Kaur A., Singh N., Kaur M., Kumari S., Yadav M.P.	Food Chemistry	2019	12	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	-
904	Enhanced performance of 40Gbit/s-80GHz OFDM based radio over FSO transmission link incorporating mode division multiplexing under strong atmospheric turbulence	Singh M., Malhotra J.	Optoelectronics and Advanced Materials, Rapid Communications	2019	4	Electronics and Communication Engineering Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India	-
905	Formulation and characterization of hpmc and hpmcas based solid dispersions of fenofibrate: A comparative study	Rampal A., Singh M., Mahajan S., Bedi N.	International Journal of Applied Pharmaceutics	2019	1	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-



906	A Lightweight User Authentication Scheme for Cloud-IoT Based Healthcare Services	Sharma G., Kalra S.	Iranian Journal of Science and Technology - Transactions of Electrical Engineering	2019	9	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India	-
907	Study on interactions of vitamin B1 with sodium dodecyl sulfate for potential food applications: Conductometric, volumetric, calorimetric and spectroscopic approach	Kaur R., Rani A., Banipal P.K., Banipal T.S.	Journal of Molecular Liquids	2019	2	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
908	Possible Molecular Mediators Involved and Mechanistic Insight into Fibromyalgia and Associated Co-morbidities	Singh L., Kaur A., Bhatti M.S., Bhatti R.	Neurochemical Research	2019	3	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India	-
909	Appraisal of heavy metal contents in groundwater and associated health hazards posed to human population of Ropar wetland, Punjab, India and its environs	Sharma S., Nagpal A.K., Kaur I.	Chemosphere	2019	12	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	-
910	SNA Based Resource Optimization in Optical Network using Fog and Cloud Computing	Sood S.K., Singh K.D.	Optical Switching and Networking	2019	11	Department of Computer Science & Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	-
911	Factors affecting mortality prototype in murrah buffaloes: A review	Gupta N.M., Mehra M.L., Malhotra P.	Buffalo Bulletin	2019	-	Department of Animal Husbandry, Government of Madhya Pradesh Madhya Pradesh, India; Department of Livestock Farm Complex, Khalsa College of Veterinary and Animal Science, Amritsar, India; Guru Angad Dev Veterinary and Animal Sciences University Punjab, India	-
912	Development and description of conceptual model related to employee engagement in organizations	Atwal H., Sandhu V.	International Journal of Engineering and Advanced Technology	2019	1	Department of Basic and Applied Sciences, Punjabi University, Patiala, Punjab, India; University Business School, Guru Nanak Dev University, Amritsar, Punjab, India	-
913	Autonomic fog computing: Towards sustainable and reliable integration of cloud & internet of things	Bohmrah M.K., Kaur H.	International Journal of Innovative Technology and Exploring Engineering	2019	-	Department of Computer Science & Engineering, Khalsa College of Engineering & Technology, India; Department of Computer Science & Engineering of Guru Nanak Dev University, India	-
914	Role of F-spin multiplets in identical band phenomena in normal deformed nuclei	Malik S.S., Mazumdar I.	Nuclear Physics A	2019	2	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Nuclear and Atomic Physics, Tata Institute of Fundamental Research, Mumbai, 400005, India	-
915	Substituted 1,3-dioxoisindoline-4-aminoquinolines coupled via amide linkers: Synthesis, antiparasitic and cytotoxic evaluation	Rani A., Legac J., Rosenthal P.J., Kumar V.	Bioorganic Chemistry	2019	5	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Medicine, University of California, San Francisco, CA, United States	-
916	Nanofluid-based minimum quantity lubrication (MQL) face milling of inconel 625	Singh P., Dureja J.S., Singh H., Bhatti M.S.	International Journal of Automotive and Mechanical Engineering	2019	-	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	-
917	Oblique modulation of electron acoustic waves in nonextensive plasma	Bansal S., Gill T.S., Aggarwal M.	Physics of Plasmas	2019	2	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	-
918	Kinetic Alfvén solitary waves in a plasma with two- temperature superthermal electron populations: The case of Saturn's magnetosphere	Singh M., Saini N.S., Kourakis I.	Monthly Notices of the Royal Astronomical Society	2019	1	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	-



919	Optimization of process parameters on hydroxymethylfurfural content, diastase and invertase activity of coriander honey	Kamboj R., Sandhu R.S., Kaler R.S.S., Bera M.B., Nanda V.	Journal of Food Science and Technology	2019	1	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	-
920	Construction and analysis of a novel sac-ocdma system with edw coding using direct detection technique	Sarangal H., Singh A., Malhotra J.	Journal of Optical Communications	2019	3	Research Scholar, IKG PTU Kapurthala, ECE, Kapurthala, India; Department of ECE, KCET, Amritsar, Punjab, India; Department of Electronics, GNDU RC, Jalandhar, Punjab, India	-
921	Design, synthesis, anti-mycobacterial and cytotoxic evaluation of C-4 functionalized 1,8-naphthalimide-heterocyclic hydrazide conjugates	Shalini, Johansen M.D., Kremer L., Kumar V.	Chemical Biology and Drug Design	2019	3	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	-
922	Phytohormones regulate accumulation of osmolytes under abiotic stress	Sharma A., Shahzad B., Kumar V., Kohli S.K., Sidhu G.P.S., Bali A.S., Handa N., Kapoor D., Bhardwaj R., Zheng B.	Biomolecules	2019	61	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	-
923	Extent and drivers of CSR disclosure: evidence from Russia	Bhatia A., Makkar B.	Transnational Corporations Review	2019	-	University School of Financial Studies, Guru Nanak Dev University, Amritsar, 143005, India	-
924	Adaptive Neuro Fuzzy Inference System (ANFIS) based wildfire risk assessment	Kaur H., Sood S.K.	Journal of Experimental and Theoretical Artificial Intelligence	2019	4	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	-
925	Advanced multi-factor user authentication scheme for E-governance applications in smart cities	Sharma G., Kalra S.	International Journal of Computers and Applications	2019	3	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, India	-
926	A study of farthest points and uniquely remotal sets	Sangeeta, Narang T.D.	Journal of Interdisciplinary Mathematics	2019	-	Department of Mathematics, Amardeep Singh Shergill Memorial College, Mukandpur, Punjab 144507, India; Department of Mathematics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
927	Phenanthridine-Fused Tetracyclic Ring System: Metal-Free Diastereoselective Modular Construction of Highly Constrained Polyheterocycles via Post-Ugi Tandem Modifications	Singh K., Malviya B.K., Jaiswal P.K., Verma V.P., Chimni S.S., Sharma S.	Organic Letters	2019	5	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	-
928	Flexible and highly sensitive Cl2 sensor based on solution processed phthalocyanine nanowires	Devi P., Singh R., Sharma S., Sharma S., Mahajan A., Bedi R.K., Saini R.	AIP Conference Proceedings	2019	-	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	-
929	Sensitive and selective hydrogen gas sensor based on Sn doped NiO nanoparticles	Singh S.K.J., Singh R.C.	AIP Conference Proceedings	2019	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
930	Thermal, optical and Raman spectroscopy studies of lithium tellurite glasses containing molybdenum and tungsten ions	Kaur A., Khanna A.	AIP Conference Proceedings	2019	1	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
931	Study of anti-glass phases in heavy metal oxide tellurite systems	Gupta N., Khanna A.	AIP Conference Proceedings	2019	3	Sensors and Glass Lab, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-



932	Gamma-ray and neutron shielding behaviour of CaO-K <sub>2</sub> O- P <sub>2</sub> O <sub>5</sub> glass system modified with Bi <sub>2</sub> O <sub>3</sub>	Kaur P., Singh K.J., Kurudirek M., Thakur S.	AIP Conference Proceedings	2019	-	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	-
933	Sensing performance of rGO/phthalocyanine based hybrid at room temperature	Sharma A.K., Sohal M.K., Singh R.C., Mahajan A.	AIP Conference Proceedings	2019	-	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	-
934	Engineered Substrate for Cyclooxygenase-2: A Pentapeptide Isoconformational to Arachidonic Acid for Managing Inflammation	Kaur B., Kaur M., Kaur N., Garg S., Bhatti R., Singh P.	Journal of Medicinal Chemistry	2019	1	Department of Chemistry, Centre for Advanced Studies, Amritsar, 143005, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India	-
935	Growth of few layered molybdenum disulphide	Prakash O., Mahajan A., Bedi R.K., Saxena V.	AIP Conference Proceedings	2019	-	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	-
936	Thermoluminescence characteristics of gamma induced LiF: Yb <sup>3+</sup> nanophosphor	Kumar A., Kumar A., Dogra R., Sharma S., Kumar R.	AIP Conference Proceedings	2019	1	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 Hamirpur 177005 (H.P.), India; Swami Premanand Mahavidyalaya, Mukerian, Punjab, India	-
937	Synthesis, Characterization and Gas Sensing Properties of Ga- Doped SnO <sub>2</sub> Nanostructures	Singh G., Singh R.C.	Journal of Electronic Materials	2019	5	Department of Applied Physics, Chandigarh University, Gharuan, Mohali, Punjab, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
938	Investigation of Magnetic and Microwave Absorption Properties of Ba(1-2x)LaxNaxFe <sub>10</sub> CoTiO <sub>19</sub> Hexaferrites in 18.0–26.5 GHz Band	Arora A., Narang S.B.	Journal of Superconductivity and Novel Magnetism	2019	3	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; D.A.V. Institute of Engineering and Technology, Jalandhar, India	-
939	Dynamic, shear and pasting behaviour of native and octenyl succinic anhydride (OSA) modified wheat starch and their utilization in preparation of edible films	Punia S., Sandhu K.S., Dhull S.B., Kaur M.	International Journal of Biological Macromolecules	2019	7	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	-
940	Edifying role of corporate reputation in new issue market: Indian evidence	Kaur A., Singh B.	Asia-Pacific Journal of Business Administration	2019	-	USFS, Guru Nanak Dev University, Amritsar, India; Department of Commerce and Business Management, Guru Nanak Dev University, Amritsar, India	-
941	Teratogenicity and accumulation of triclosan in the early life stages of four food fish during the bioassay	Dar O.I., Sharma S., Singh K., Kaur A.	Ecotoxicology and Environmental Safety	2019	1	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
942	AIEE Active Nanoassemblies of Pyrazine Based Organic Photosensitizers as Efficient Metal-Free Supramolecular Photoredox Catalytic Systems	Dadwal S., Deol H., Kumar M., Bhalla V.	Scientific reports	2019	-	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	-
943	DNA based cloud storage security framework using fuzzy decision making technique	Majumdar A., Biswas A., Baishnab K.L., Sood S.K.	KSII Transactions on Internet and Information Systems	2019	2	National Institute of Technology Silchar Assam, India; Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	-
944	Long-Reach High-Capacity Hybrid MDM-OFDM-FSO Transmission Link Under the Effect of Atmospheric Turbulence	Singh M., Malhotra J.	Wireless Personal Communications	2019	7	Electronics and Communication Engineering Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India	-



945	Learning towards failure prediction of high performance computing clusters by employing LSTM	Kaur K., Kaur K.	International Journal of Engineering and Advanced Technology	2019	-	Department of Computer Engineering & Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India	-
946	Purified winged bean protease inhibitor affects the growth of <i>Bactrocera cucurbitae</i>	Kaur A.P., Sohal S.K.	Bulletin of Entomological Research	2019	2	Department of Zoology, Guru Nanak Dev University, Amritsar, 143 005, India	-
947	Analysis of sum spectrum efficiency in multiple antennas multi-user MIMO cellular system for millimeter wave communications	Kaur J., Singh M.L., Sohal R.S.	Sadhana - Academy Proceedings in Engineering Sciences	2019	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	-
948	Elucidating the role of size of hydroxyl apatite particles toward the development of competent antiosteoporotic bioceramic materials: In vitro and in vivo studies	Kaur K., Singh K.J., Anand V., Bhatia G., Singh A.P., Kaur M.	Journal of Biomedical Materials Research - Part A	2019	-	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	-
949	Towards socially enabled internet of industrial things: Architecture, semantic model and relationship management	Gulati N., Kaur P.D.	Ad Hoc Networks	2019	4	Department of Computer Science and Engineering, Guru Nanak Dev University, RC, Jalandhar, India	-
950	Bergapten inhibits chemically induced nociceptive behavior and inflammation in mice by decreasing the expression of spinal PARP, iNOS, COX-2 and inflammatory cytokines	Singh G., Kaur A., Kaur J., Bhatti M.S., Singh P., Bhatti R.	Inflammopharmacology	2019	5	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	-
951	Influence of different milling media on structural, morphological and optical properties of the ZnO nanoparticles synthesized by ball milling process	Singh J., Sharma S., Soni S., Sharma S., Chand Singh R.	Materials Science in Semiconductor Processing	2019	9	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
952	Design and analysis of multi-heuristic based solution for task graph scheduling problem	Kaur R., Singh G.	International Journal of Engineering and Advanced Technology	2019	-	Department of Computer Science, Guru Nanak Dev University, Amritsar, India; Deptt. of CSE, UIET, Panjab University, India	-
953	Ameliorative effect of imperatorin in chemically induced fibromyalgia: Role of NMDA/NFkB mediated downstream signaling	Kaur A., Singh L., Singh N., Bhatti M.S., Bhatti R.	Biochemical Pharmacology	2019	8	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	-
954	NMR characterization of conformational fluctuations and noncovalent interactions of SUMO protein from <i>Drosophila melanogaster</i> (dSmt3)	Kaur A., Gourav, Kumar S., Jaiswal N., Vashisht A., Kumar D., Gahlay G.K., Mithu V.S.	Proteins: Structure, Function and Bioinformatics	2019	2	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	-
955	Ni <sub>0.1</sub> Co <sub>0.9</sub> Fe <sub>2</sub> O <sub>4</sub> spinel ferrite as a promising magneto- dielectric substrate for X-band Microstrip Patch Antenna	Pubby K., Bhongale S.R., Vasambekar P.N., Narang S.B.	2019 3rd International Conference on Electronics, Materials Engineering and Nano-Technology, IEMENTech 2019	2019	-	Guru Nanak Dev University, Department of Electronics Technology, Amritsar, India; Yashwantrao Chavan Institute of Science, Department of Physics, Satara, India; Shivaji University, Department of Electronics, Kohlapur, India	-
956	Identification and clinical validation of a novel 4 gene- signature with prognostic utility in colorectal cancer	Ahluwalia P., Mondal A.K., Bloomer C., Fulzele S., Jones K., Ananth S., Gahlay G.K., Heneidi S., Rojiani A.M., Kota V., Kolhe R.	International Journal of Molecular Sciences	2019	2	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	-



957	Modulation of the functional components of growth, photosynthesis, and anti-oxidant stress markers in cadmium exposed Brassica juncea L.	Kapoor D., Singh M.P., Kaur S., Bhardwaj R., Zheng B., Sharma A.	Plants	2019	3	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	-
958	Ignatyuk damping factor: A semiclassical formula	Dwivedi N.R., Monga S., Kaur H., Jain S.R.	International Journal of Modern Physics	2019	-	Nuclear Physics Division, Bhabha Atomic Research Centre, Trombay, Mumbai, 400 085, India; Department of Physics, University of Mumbai, Vidyanaigari 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	-
959	Domain-specific and nonspecific outcomes of work-family interface: A study of Indian journalists	Bhalla A., Kang L.S.	Evidence-based HRM	2019	-	University Business School, Guru Nanak Dev University, Amritsar, India; Department of Commerce, Guru Nanak Dev University, Amritsar, India	-
960	Oblique modulation of electron acoustic waves in superthermal plasma	Bansal S., Gill T.S., Aggarwal M.	Physica Scripta	2019	-	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	-
961	Positron-acoustic nonlinear waves in multicomponent plasmas	Sethi P., Kaur N., Singh K., Singh M., Saini N.S.	AIP Conference Proceedings	2019	-	Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
962	Nonlinear excitations in a relativistic plasma with non-Maxwellian electrons	Kaur N., Sethi P., Singh M., Singh K., Saini N.S.	AIP Conference Proceedings	2019	-	Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
963	Three dimensional ion acoustic solitary waves in a magnetized plasma consisting of two temperature nonextensive electrons	Singh M., Singh K., Sethi P., Kaur N., Saini N.S.	AIP Conference Proceedings	2019	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
964	Ion acoustic shocks in degenerate plasma with trapping in a quantizing magnetic field	Singh K., Singh M., Kaur N., Sethi P., Saini N.S.	AIP Conference Proceedings	2019	-	Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
965	Withania somnifera (L.) Dunal ameliorates neurodegeneration and cognitive impairments associated with systemic inflammation	Gupta M., Kaur G.	BMC Complementary and Alternative Medicine	2019	5	Department of Biotechnology, Medical Biotechnology Laboratory, Guru Nanak Dev University Amritsar, Amritsar, Punjab, 143005, India	-
966	Major Phytoconstituents of Prunus cerasoides Responsible for Antimicrobial and Antibiofilm Potential Against Some Reference Strains of Pathogenic Bacteria and Clinical Isolates of MRSA	Arora D.S., Mahajan H.	Applied Biochemistry and Biotechnology	2019	4	Microbial Technology Laboratory, Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India	-
967	Exploring Temporal Analytics in Fog-Cloud Architecture for Smart Office HealthCare	Bhatia M., Sood S.K.	Mobile Networks and Applications	2019	8	Guru Nanak Dev University, Regional Campus, Gurdaspur, India	-
968	Structural, Dielectric, Ferroelectric and Magnetic Properties of (BNT-BT)-NCZF Composites Synthesized by a Microwave- Assisted Solid-State Reaction Route	Nanda D., Kumar P., Samanta B., Sahu R., Singh A.	Journal of Electronic Materials	2019	2	Department of Physics and Astronomy, National Institute of Technology, Rourkela, Odisha 769008, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
969	Interfacial exchange coupling driven magnetic and microwave properties of BaFe 12 O 19 /Ni 0.5 Zn 0.5 Fe 2 O 4 nanocomposites	Pahwa C., Narang S.B., Sharma P.	Journal of Magnetism and Magnetic Materials	2019	6	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	-



970	Enhanced Microwave Absorption Properties of Doped M- Type Barium Hexagonal Ferrites in Ka-band Frequencies	Arora A., Narang S.B., Pubby K.	Journal of Superconductivity and Novel Magnetism	2019	1	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; D.A.V. Institute of Engineering and Technology, Jalandhar, India	-
971	Rational approaches, design strategies, structure activity relationship and mechanistic insights for therapeutic coumarin hybrids	Singh H., Singh J.V., Bhagat K., Gulati H.K., Sanduja M., Kumar N., Kinarivala N., Sharma S.	Bioorganic and Medicinal Chemistry	2019	25	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	-
972	Association of TNF- $\alpha$ gene alterations (c.-238G>A, c.-308G>A, c.-857C>T, c.-863C>A) with primary glaucoma in north Indian cohort	Passan S., Goyal S., Bhat M.A., Singh D., Vanita V.	Gene	2019	1	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	-
973	An outlier in the north success of the Congress in Punjab	Sekhon J.S., Kumar A.	Economic and Political Weekly	2019	-	Department of Political Science, Guru Nanak Dev University, Amritsar, India; Department of Political Science, Panjab University, Chandigarh, India	-
974	Do CEO characteristics explain firm performance in India?	Kaur R., Singh B.	Journal of Strategy and Management	2019	1	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India	-
975	Examining the relationships between political advertisements, party brand personality, voter satisfaction and party loyalty	Kaur H., Sohal S.	Journal of Indian Business Research	2019	1	Department of Commerce, Guru Nanak Dev University, Amritsar, India; University School of Financial Studies, Guru Nanak Dev University, Amritsar, India	-
976	Achieving colossal Kerr nonlinearity via multiphoton atomic coherence in a five-level $\Lambda$ - $\Xi$ system	Kaur A., Kumar S., Kaur P.	Physica Scripta	2019	1	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	-
977	Behavioral and Biochemical Implications of Dendrimeric Rivastigmine in Memory-Deficit and Alzheimer's Induced Rodents	Gothwal A., Singh H., Jain S.K., Dutta A., Borah A., Gupta U.	ACS Chemical Neuroscience	2019	1	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	-
978	High temperature-mediated rocksalt to wurtzite phase transformation in cadmium oxide nanosheets and its theoretical evidence	Das A., Saini C.P., Singh D., Ahuja R., Kaur A., Aliukov S., Shukla D., Singh F.	Nanoscale	2019	1	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	-
979	Unveiling the tunneling phenomena in graphene-graphene homo-junctions for emerging device applications	Kaur A., Singh R.C.	Journal of Physics Condensed Matter	2019	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
980	Effect of pH on the structural, optical and gas sensing properties of nickel oxide	Shailja K.J.S., Singh R.C.	AIP Conference Proceedings	2019	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
981	Investigation of polymethyl methacrylate incorporated neodymium oxide for gamma-ray and neutron shielding behaviour	Thakur S., Kaur P., Singh L.	AIP Conference Proceedings	2019	-	Department of Physics, Guru Nanak Dev University College Verka, Punjab, Amritsar, 143501, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
982	Effect of iron ion implantation dose on optical and structural properties of CdS nanowires	Kaur J., Singh R.C.	AIP Conference Proceedings	2019	-	Department of Physics, Guru Nanak Dev University, Amritsar, India	-
983	Influence of some polymers on micellization behavior of sodium caprylate and cetyl pyridinium chloride	Sood A.K.	AIP Conference Proceedings	2019	-	Department of Chemistry, Guru Nanak Dev University, Amritsar (Pb.), 143 005, India	-



984	Sonication assisted graphene exfoliation for preparation of conductive inks	Kaur A., Singh R.C.	AIP Conference Proceedings	2019	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
985	Evaluation of bone regeneration ability of 42SiO <sub>2</sub> -37CaO- 10P <sub>2</sub> O <sub>5</sub> -6MnO-5ZnO bioceramic composition	Sarin N., Singh K.J., Kaur R., Singh J., Kaur P.	AIP Conference Proceedings	2019	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India	-
986	Propagation characteristics of non-Gaussian laser beam in a plasma with density ramp using Moment Theory Approach	Pathak N., Kaur P., Agrawal P.C., Kaur S.	AIP Conference Proceedings	2019	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Regional Institute of Education, Bhubaneswar, 751022, India	-
987	Effect of different fuel combination on structure and properties of M type hexaferrite BaZn <sub>0.2</sub> Zr <sub>0.2</sub> Fe <sub>11.6</sub> O <sub>19</sub>	Kumar S.G., Kaur V., Sood A.K., Bhadu G.R., Chaudhari J.C., Narang S.B.	AIP Conference Proceedings	2019	-	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	-
988	Assessment of the gamma-radiation and neutron shielding ability of Sb <sub>2</sub> O <sub>3</sub> -WO <sub>3</sub> -PbO-Na <sub>2</sub> O glass system	Kaur P., Singh K.J., Thakur S., Sarin N.	AIP Conference Proceedings	2019	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, Guru Nanak Dev University, College Verka, Amritsar, Punjab, 143501, India	-
989	Secure and efficient ECC based SIP authentication scheme for VoIP communications in internet of things	Dhillon P.K., Kalra S.	Multimedia Tools and Applications	2019	7	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab 144001, India	-
990	Microwave filter characteristics of ferrite and polyaniline composites from 8.2 to 12.4 GHz	Singh C., Bai Y., Narang S.B., Sombra A.S.B., Mishra S.R., Jotania R., Khanna R., Trukhanov S.V., Trukhanov A.V., Ghimire M.	Journal of Materials Science: Materials in Electronics	2019	-	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 Prospect, 76, Chelyabinsk, 454080, Russian Federation	-
991	A survey of genetic algorithm based load balancing techniques for task graph scheduling problem in distributed environment	Kaur R., Singh G.	International Journal of Scientific and Technology Research	2019	-	Deptt. Computer Science & Engineering, Guru Nanak Dev University, India	-
992	Nonlinear excitations in a degenerate relativistic magneto-rotating quantum plasma	Singh K., Sethi P., Saini N.S.	Physics of Plasmas	2019	3	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
993	Optical fog-assisted smart learning framework to enhance students' employability in engineering education	Sood S.K., Singh K.D.	Computer Applications in Engineering Education	2019	3	Department of Computer Science & Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	-
994	Performance investigation of high-speed FSO transmission system under the influence of different atmospheric conditions incorporating 3-D orthogonal modulation scheme	Singh M., Malhotra J.	Optical and Quantum Electronics	2019	2	Electronics and Communication Engineering Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India	-
995	Genome-wide analysis of cyclophilin gene family in wheat and identification of heat stress responsive members	Singh H., Kaur K., Singh S., Kaur P., Singh P.	Plant Gene	2019	-	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Bioinformatics, Hans Raj Mahila Maha Vidyalaya, Jalandhar, Punjab 144008, India	-





996	DDOS attack detection and handling mechanism in WSN	Dogra A., Kaur T.	International Journal of Recent Technology and Engineering	2019	-	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	-
997	Goods and services tax: Issues and challenges in India	Sandhu V., Atwal H.	International Journal of Recent Technology and Engineering	2019	1	University Business School, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Basic and Applied Sciences, Punjabi University, Patiala, Punjab, India	-
998	Detecting intrusion with high accuracy: Using hybrid K-Multi layer perceptron	Dogra A., Taqdir	International Journal of Recent Technology and Engineering	2019	-	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	-
999	Hybrid Type-2 Fuzzy Based Channel Estimation for MIMO- OFDM System with Doppler Offset Influences	Kaur H., Khosla M., Sarin R.K.	Wireless Personal Communications	2019	-	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	-
1000	Bioefficacy of Hexane Extract of Inula racemosa (Asteraceae) Against Spodoptera litura (Lepidoptera: Noctuidae) [Bíowirksamkeit des Hexanextrakts aus Inula racemosa (Asteraceae) gegen Spodoptera litura (Lepidoptera: Noctuidae)]	Kaur M., Saraf I., Kumar R., Singh I.P., Kaur S.	Gesunde Pflanzen	2019	1	Guru Nanak Dev University, Department of Zoology, Amritsar, Punjab 143005, India; Department of Natural Products, National Institute of Pharmaceutical Education and Research (NIPER), S.A.S Nagar, Punjab 160062, India	-
1001	Structural, dielectric and electrical properties of Fe doped ZnO solid solutions for cathode materials	Paul S., Manokamna, Kaur S., Malhi P.S., Singh A., Kumar A.	International Journal of Recent Technology and Engineering	2019	-	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	-
1002	Sensors based automotive vehicle for the detection of fuel level	Kalsi P., Singh H.	International Journal of Innovative Technology and Exploring Engineering	2019	-	Lovely Professional University Punjab, India; Guru Nanak Dev University Punjab, India; Punjab Technical University Punjab, India	-
1003	Modification of Moth Bean Starch Using Mixture of Organic Acids under Dry Heating	Singh H., Punia R., Ganesh A., Duttgupta A., Kaur A., Blennow A.	Starch/Staerke	2019	2	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 143005, India; Department of Plant and Environmental Sciences, University of Copenhagen, 40 Thorvaldsensvej, Frederiksberg C, DK-1871, Denmark	-
1004	Effect of debranning on grains and meal characteristics of different Indian and exotic wheat varieties	Katyal M., Singh N., Viridi A.S., Kaur A., Chopra N., Agarwal S., Roy J.K.	Food Research International	2019	-	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	-
1005	In Silico Evaluation of Variable pH on the Binding of Epidermal Growth Factor Receptor Ectodomain to its Ligand Through Molecular Dynamics Simulation in Tumors	Singh I., Singh G., Verma V., Singh S., Chandra R.	Interdisciplinary Sciences: Computational Life Sciences	2019	1	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	-
1006	Resveratrol loaded functionalized nanostructured lipid carriers for breast cancer targeting: Systematic development, characterization and pharmacokinetic evaluation	Poonia N., Kaur Narang J., Lather V., Beg S., Sharma T., Singh B., Pandita D.	Colloids and Surfaces B: Biointerfaces	2019	10	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	-



1007	Protective effect of high levels of TGF- $\beta$ 1 cytokine and its corresponding allele at C-509T locus in Punjabi ESRD population	Gupta V., Kumar A., Chaudhary M., Sehajpal P.K.	Meta Gene	2019	-	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	-
1008	Theoretical analysis of planar and non-planar electron - acoustic shock waves in electron-positron-ion plasma	Bansal S., Aggarwal M., Gill T.S.	Contributions to Plasma Physics	2019	3	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	-
1009	Supplementation with plant growth promoting rhizobacteria (PGPR) alleviates cadmium toxicity in Solanum lycopersicum by modulating the expression of secondary metabolites	Khanna K., Jamwal V.L., Sharma A., Gandhi S.G., Ohri P., Bhardwaj R., Al-Huqail A.A., Siddiqui M.H., Ali H.M., Ahmad P.	Chemosphere	2019	15	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 Srinagar Jammu and Kashmir, India	-
1010	Evaluating the service quality of solar product companies using SERVQUAL model	Kumar V., Hundal B.S.	International Journal of Energy Sector Management	2019	5	University Business School, Guru Nanak Dev University, Amritsar, India	-
1011	Factors affecting consumer buying behaviour of solar water pumping system	Kumar V., Hundal B.S., Kaur K.	Smart and Sustainable Built Environment	2019	6	University Business School, Guru Nanak Dev University, Amritsar, India; University Business School, Punjab University, Chandigarh, India	-
1012	AIEE Active Supramolecular Metallic Ensemble as "turn-On" Platform for Detection of Creatinine in Human Blood Serum at Picomolar Level	Kaur K., Kataria M., Kaur M., Sood A.K., Kumar M., Bhalla V.	ACS Sustainable Chemistry and Engineering	2019	1	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
1013	An optimal topology selection for power recharging model in wireless sensor networks)	Angurala M., Bala M., Bamber S.S.	International Journal of Advanced Science and Technology	2019	-	I.K Gujral Punjab Technical University, Computer Science and Engineering 144603, India; Khalsa College of Engineering and Technology, Amritsar, Punjab, India; Panjab University SSG Regional Centre, Hoshiarpur, Punjab, India	-
1014	Effect of Caffeine on the Physicochemical Properties of Neurotransmitter GABA: Thermodynamic and Theoretical Approach	Kaur N., Sharma P., Banipal T.S., Banipal P.K., Aggarwal N.	Journal of Chemical and Engineering Data	2019	2	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	-
1015	Click-chemistry approach to synthesis of functionalized isatin- ferrocenes and their biological evaluation against the human pathogen Trichomonas vaginalis	Singh A., Zhang D., Tam C.C., Cheng L.W., Land K.M., Kumar V.	Journal of Organometallic Chemistry	2019	1	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	-
1016	Castasterone attenuates insecticide induced phytotoxicity in mustard	Sharma A., Yuan H., Kumar V., Ramakrishnan M., Kohli S.K., Kaur R., Thukral A.K., Bhardwaj R., Zheng B.	Ecotoxicology and Environmental Safety	2019	11	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	-



1017	Enhanced hydrolysis of lignocellulosic biomass with doping of a highly thermostable recombinant laccase	Rai R., Bibra M., Chadha B.S., Sani R.K.	International Journal of Biological Macromolecules	2019	9	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	-
1018	Heat-Transfer Method: A Thermal Analysis Technique for the Real-Time Monitoring of Staphylococcus aureus Growth in Buffered Solutions and Digestate Samples	Betlem K., Kaur A., Hudson A.D., Crapnell R.D., Hurst G., Singla P., Zubko M., Tedesco S., Banks C.E., Whitehead K., Peeters M.	ACS Applied Bio Materials	2019	1	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	-
1019	Effect of the Alkyl Chain Length of Amphiphilic Ionic Liquids on the Structure and Dynamics of Model Lipid Membranes	Kumar S., Scheidt H.A., Kaur N., Kang T.S., Gahlay G.K., Huster D., Mithu V.S.	Langmuir	2019	4	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	-
1020	Low temperature processable ultra-thin WO <sub>3</sub> Langmuir-Blodgett film as excellent hole blocking layer for enhanced performance in dye sensitized solar cell	Prakash O., Saxena V., Choudhury S., Tanvi, Singh A., Debnath A.K., Mahajan A., Muthe K.P., Aswal D.K.	Electrochimica Acta	2019	4	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	-
1021	Hierarchy of Commonly Used DFT Methods for Predicting the Thermochemistry of Rh-Mediated Chemical Transformations	Shiekh B.A.	ACS Omega	2019	1	Department of Chemistry, UGC Sponsored Centre of Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India	-
1022	Impact of packaging materials and different chemicals on storage and shelf life of pear cv. Punjab beauty	Kaur A., Kaur M.	International Journal of Advanced Science and Technology	2019	-	Department of Horticulture (Agriculture) Khalsa College, Guru Nanak Dev University, Amritsar, India	-
1023	Isolation and characterization of arabinoxylans from wheat bran and study of their contribution to wheat flour dough rheology	Kaur A., Yadav M.P., Singh B., Bhinder S., Simon S., Singh N.	Carbohydrate Polymers	2019	5	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	-
1024	Perinatal hypoxia diagnostic system by using scalable machine learning algorithms	Kaur H., Khullar V., Singh H.P., Bala M.	International Journal of Innovative Technology and Exploring Engineering	2019	-	CT Institute of Engineering Management and Technology, Jalandhar, India; Khalsa College of Engineering and Technology, Amritsar, India	-
1025	Mobile Network Architecture for Emergency Rescue Services in the Smart City	Priya M., Malhotra J.	Proceedings - 2019 International Conference on Computing, Communication, and Intelligent Systems, ICCIS 2019	2019	-	GNDU Regional Campus, Department of Electronics and Communication Engineering, Jalandhar, India; GNDU Regional Campus, Department of Engineering and Technology, Jalandhar, India	-
1026	Estimation of back strength, hip circumference and buttock knee length and its correlation with explosive power in Indian state and national level gymnasts	Kaur K., Koley S.	International Journal of Advanced Science and Technology	2019	-	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	-
1027	Post-independence institutional efforts in planned housing development in Amritsar (Punjab, India)	Kaur G., Luthra A.	International Journal of Engineering and Advanced Technology	2019	-	Guru Ramdas School of Planning, Guru Nanak Dev University, Amritsar, India	-



1028	A secure multifactor remote user authentication scheme for Internet of Multimedia Things environment	Dhillon P.K., Kalra S.	International Journal of Communication Systems	2019	2	Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus, Jalandhar, Punjab, India	-
1029	Mixed valence effect of Se <sup>6+</sup> and Zr <sup>4+</sup> on structural, thermal, physical, and optical properties of Bi <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -SeO <sub>2</sub> -ZrO <sub>2</sub> glasses	Thakur S., Kaur A., Singh L.	Optical Materials	2019	3	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
1030	Plasmodium helical interspersed subtelomeric family—an enigmatic piece of the Plasmodium biology puzzle	Kumar V., Behl A., Sharma R., Sharma A., Hora R.	Parasitology Research	2019	-	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India	-
1031	Structural tuning of acridones for developing anticancer agents targeting dihydrofolate reductase	Singh H., Kaur M., Kaur H., Sharma I., Bhandari A., Kaur G., Singh P.	Bioorganic and Medicinal Chemistry Letters	2019	-	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	-
1032	Amelioration of hepatic function, oxidative stress, and histopathologic damages by Cassia fistula L. fraction in thioacetamide-induced liver toxicity	Kaur S., Sharma D., Singh A.P., Kaur S.	Environmental Science and Pollution Research	2019	3	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	-
1033	Toxicity assessment of chlorpyrifos on different organs of rat: exploitation of microbial-based enzymatic system for neutralization	Sharma S., Singh P., Chadha P., Saini H.S.	Environmental Science and Pollution Research	2019	-	Department of Zoology, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143 005, India	-
1034	Reduction of hexavalent chromium (VI) by indigenous alkaliphilic and halotolerant Microbacterium sp. M5: comparative studies under growth and nongrowth conditions	Kumar M., Saini H.S.	Journal of Applied Microbiology	2019	1	Department of Microbiology, Guru Nanak Dev University, Amritsar, India	-
1035	Combined mild and hard novel fabrication approach for nanoporous membrane	Walia G.S., Singh H., Kaur J., Kushwaha M.K., Singh A., Saini N.S.	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2019	1	Guru Nanak Dev University, Amritsar, Punjab, India; Shaheed Bhagat Singh State Technical Campus, Ferozepur, Punjab, India	-
1036	Role of quantum phase transition in spontaneous fission	Malik S.S., Mazumdar I.	Nuclear Physics A	2019	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Nuclear and Atomic Physics, Tata Institute of Fundamental Research, Mumbai, 400005, India	-
1037	CX3CL1 binding protein-2 (CBP2) of Plasmodium falciparum binds nucleic acids	Saxena R., Kaur J., Hora R., Singh P., Singh V., Mishra P.C.	International Journal of Biological Macromolecules	2019	1	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	-
1038	Osthole ameliorates neurogenic and inflammatory hyperalgesia by modulation of iNOS, COX-2, and inflammatory cytokines in mice	Singh G., Bhatti R., Mannan R., Singh D., Kesavan A., Singh P.	Inflammopharmacology	2019	6	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	-
1039	Microstructure of Ni-Cr-Based Coating for Corrosive Conditions	Singh H., Kalsi S.B.S., Sidhu T.S., Dhulka M.P.S., Singh D.P., Saini N.P.S.	Journal of Thermal Spray Technology	2019	1	Guru Nanak Dev University, Amritsar, Punjab, India; I.K. Gujral Punjab Technical University, Kapurthala, Punjab, India; Shaheed Bhagat Singh State Technical Campus, Ferozepur, India	-
1040	Microbial fortification improved photosynthetic efficiency and secondary metabolism in lycopersicon esculentum plants under cd stress	Khanna K., Kohli S.K., Ohri P., Bhardwaj R., Al-Huqail A.A., Siddiqui M.H., Alosaimi G.S., Ahmad P.	Biomolecules	2019	2	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 Srinagar Jammu and Kashmir, India	-



1041	New indices regarding the dominance and diversity of communities, derived from sample variance and standard deviation	Thukral A.K., Bhardwaj R., Kumar V., Sharma A.	Heliyon	2019	1	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	-
1042	Quantum-based predictive fog scheduler for IoT applications	Bhatia M., Sood S.K., Kaur S.	Computers in Industry	2019	7	Department of Computer Science and Engineering, Lovely Professional University, Punjab, India; Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus Gurdasur, India; Amritsar College of Engineering and Technology, Amritsar, India	-
1043	A review on bioprocessing of paddy straw to ethanol using simultaneous saccharification and fermentation	Hans M., Kumar S., Chandel A.K., Polikarpov I.	Process Biochemistry	2019	4	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	-
1044	Study of Uranium in Drinking Water around the Sohna Fault Line in Haryana	Chahal A., Kumar S., Panghal A., Kumar A., Singh J., Singh P., Bajwa B.S.	Journal of the Geological Society of India	2019	-	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	-
1045	Isolation of phytochemicals from Bauhinia variegata L. Bark and their in vitro antioxidant and cytotoxic potential	Sharma N., Sharma A., Bhatia G., Landi M., Brestic M., Singh B., Singh J., Kaur S., Bhardwaj R.	Antioxidants	2019	4	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	-
1046	Bandstop Passive Filter Characteristics of Hexagonal Ferrite Composites at X-Band	Singh C., Bai Y., Narang S.B., Mishra S.R., Singh D., Sombra A.S.B., Jotania R., Trukhanov S.V., Trukhanov A.V., Ghimire M., Kagdi A.	Journal of Electronic Materials	2019	1	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 Prospekt, 76, Chelyabinsk, 454080, Russian Federation	-
1047	Small polaron hopping-assisted electrical conduction and relaxation in BCT and Mn-doped BCT samples	Chawla A., Singh A., Singh M., Malhi P.S.	Journal of Asian Ceramic Societies	2019	1	Material Science and Characterization Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, India	-
1048	Development and validation of RP-HPLC method for the determination of stigmasterol in the botanical extract of Ficus deltoidea	Mukhtar H.M., Singh A., Soni V., Singh A., Kaur H.	Natural Product Research	2019		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	-



1049	Microsponges enriched gel for enhanced topical delivery of 5-fluorouracil	Jain S.K., Kaur M., Kalyani P., Mehra A., Kaur N., Panchal N.	Journal of Microencapsulation	2019	2	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India	-
1050	Insights into biological properties of less explored bark of industrially important <i>Acacia catechu</i> Willd	Kumar R., Mahey S., Arora R., Mahajan J., Kumar V., Arora S.	Industrial Crops and Products	2019	2	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	-
1051	Optimization of machining parameters under MQL turning of Ti-6Al-4V alloy with textured tool using multi-attribute decision-making methods	Singh R., Dureja J.S., Dogra M., Randhawa J.S.	World Journal of Engineering	2019	1	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	-
1052	Tunable M-type nano barium hexaferrite material by Zn <sup>2+</sup> /Zr <sup>4+</sup> co-doping	Kumar Godara S., Kaur V., Narang S.B., Singh M., Bhadu G.R., Chaudhari J.C., Mudsainiyan R.K., Sood A.K.	Materials Research Express	2019	1	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	-
1053	Neutrino-driven Instability of Ion Acoustic Waves in an Ultrarelativistic Degenerate Plasma	Ghai Y., Saini N.S., Eliasson B.	Astrophysical Journal	2019	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; SUPA, Department of Physics, University of Strathclyde, Glasgow, G4ONG, United Kingdom	-
1054	Impact of time delay in a forest biomass model in the presence of export and industry	Pal Kaur R.	International Journal of Advanced Science and Technology	2019	-	I.K. Gujral Technical University, Kapurthala, Punjab, India; P.G. Department of Mathematics, Khalsa College Amritsar Punjab, India	-
1055	Impact of virus in a resource biomass model with industry	Kaur R.P.	International Journal of Advanced Science and Technology	2019	-	I.K. Gujral Technical University, Kapurthala, Punjab, India; P.G. Department of Mathematics, Khalsa College, Amritsar, Punjab, India	-
1056	Impact of industry and export on the biomass resources	Kaur R.P.	International Journal of Advanced Science and Technology	2019	-	I.K. Gujral Technical University, Kapurthala, Punjab, India; P.G. Department of Mathematics, Khalsa College, Amritsar, Punjab, India	-
1057	Semiclassical description of $\alpha$ -Radioactivity in even-even nuclei	Monga S., Dwivedi N.R., Pathak D., Kaur H., Jain S.R.	Journal of Physics G: Nuclear and Particle Physics	2019	-	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	-
1058	Indian students' attitude toward educational debt: scale development and validation	Kaur J., Arora S.	Quality Assurance in Education	2019	1	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India	-
1059	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	Suri K., Singh B., Kaur A., Yadav M.P., Singh N.	Food Chemistry	2019	11	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	-
1060	Purification of a trypsin inhibitor from <i>Psoralea corylifolia</i> seeds and its influence on developmental physiology of <i>Bactrocera cucurbitae</i>	Samiksha, Singh D., Kesavan A.K., Sohal S.K.	International Journal of Biological Macromolecules	2019	1	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	-
1061	Fog-assisted IoT-enabled scalable network infrastructure for wildfire surveillance	Kaur H., Sood S.K.	Journal of Network and Computer Applications	2019	6	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India	-



1062	Effects of doping of trivalent ions on glass and anti-glass phases of Bi <sub>2</sub> O <sub>3</sub> -Nb <sub>2</sub> O <sub>5</sub> -TeO <sub>2</sub> system	Gupta N., Khanna A., Barriuso M.G., González F.	Journal of Non-Crystalline Solids	2019	3	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	-
1063	The costs and benefits of going beyond the call of duty	Kaur N., Kang L.S.	International Journal of Productivity and Performance Management	2019	-	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India	-
1064	Correlation among lattice strain, defect formation and luminescence properties of transition metal doped ZnO nano-crystals prepared via low temperature technique	Kaur P., Kriti, Kaur S., Arora D., Rahul, Kandasami A., Singh D.P.	Materials Research Express	2019	1	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	-
1065	Revisiting the role of relationship benefits in online retail	Soni P.	Marketing Intelligence and Planning	2019	1	Department of Commerce and Business Management, Guru Nanak Dev University, Amritsar, India	-
1066	Recent Developments in Heterogeneous Catalyzed Epoxidation of Styrene to Styrene Oxide	Batra M.S., Dwivedi R., Prasad R.	ChemistrySelect	2019	3	School of Chemical Sciences, Devi Ahilya University Takshashila Campus, Khandwa Road, Indore, 452001, India; Post-Graduate Department of Chemistry, Khalsa College, Amritsar, Punjab, India	-
1067	Investigation of structural, hysteresis and electromagnetic parameters for microwave absorption application in doped Ba-Sr hexagonal ferrites at X-band	Kaur H., Marwaha A., Singh C., Narang S.B., Jotania R., Jacobo S., Sombra A.S.B., Trukhanov S.V., Trukhanov A.V., Dhruv P.	Journal of Alloys and Compounds	2019	10	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	-
1068	Global distribution of earthworm diversity	Phillips H.R.P., Guerra C.A., Bartz M.L.C., Briones M.J.I., Brown G., Crowther T.W., Ferlian O., Gongalsky K.B., Van Den Hoogen J., Krebs J., Orgiazzi A., Routh D., Schwarz B., Bach E.M., Bennett J., Brose U., Decaëns T., König-Ries B., Loreau M., Mathieu J., Mulder C., Van Der Putten W.H., Ramirez K.S., Rillig M.C., Russell D., Rutgers M., Thakur M.P., De Vries F.T., Wall D.H., Wardle D.A., Arai M., Ayuke F.O., Baker G.H., Beauséjour R., Bedano J.C., Birkhofer K., Blanchart E., Blossey B., Bolger T., Bradley R.L., Callahan M.A., Capowiez Y., Caulfield M.E., Choi A., Crotty F.V., Dávalos A., Cosin D.J.D., Dominguez	Science	2019	21	German Centre for Integrative Biodiversity Research (IDiv) Halle-Jena-Leipzig, 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 Ecología 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; CEF, 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,	-



		A., Duhour A.E., Van Eekeren N., Emmerling C., Falco L.B., Fernández R., Fonte S.J., Frago C., Franco A.L.C., Fugère M., Fusilero A.T., Gholami S., Gundale M.J., Lopez M.G., Hackenberger D.K., Hernández L.M., Hishi T., Holdsworth A.R., Holmstrup M., Hopfensperger				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, Wageningen University and Research, Wageningen, 6708 PB, Netherlands; Berlin-Brandenburg Institute of Advanced Biodiversity Research (BBIB), Berlin, 14195, Germany; Institute of Biology, Freie Universität Berlin, Berlin, 14195, Germany; Department of Soil Zoology, Senckenberg Museum for Natural History Göttingen	
1069	Study of existing cloud data storage techniques with respect to optimized duplication: Deduplication	Chhabra N., Bala M.	International Journal of Advanced Science and Technology	2019		I. K. Gujral Punjab Technical University, Kapurthala, Punjab, India; Khalsa College of Engineering & Technology, Amritsar, Punjab, India	-
1070	Investigation of structural and optical properties of pure and zinc doped CuO nanoparticles	Singh G.P., Singh J., Singh R.C., Singh K.J.	AIP Conference Proceedings	2019		Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
1071	Oxidative stress mitigation and initiation of antioxidant and osmoprotectant responses mediated by ascorbic acid in Brassica juncea L. subjected to copper (II) stress	Sharma R., Bhardwaj R., Thukral A.K., Al-Huqail A.A., Siddiqui M.H., Ahmad P.	Ecotoxicology and Environmental Safety	2019	4	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	-
1072	Psychometric properties of multidimensional scale of perceived social support (MSPSS): Indian adaptation	Kaur K., Beri N.	International Journal of Scientific and Technology Research	2019	3	Khalsa College of Education, Ranjit Avenue, Amritsar, India; Lovely Professional University, Phagwara, India	-
1073	Security concerns in cloud computing: Analysis and solution	Attri J., Kaur P.	International Journal of Innovative Technology and Exploring Engineering	2019	-	Guru Nanak Dev University, Amritsar, India; Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India	-
1074	The evolution of rogue wave triplets and super rogue waves in superthermal polarized space dusty plasma	Singh K., Saini N.S.	Physics of Plasmas	2019	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-
1075	Azolla pinnata, Aspergillus terreus, and Eisenia fetida for faster recycling of nutrients from wheat straw	Arora M., Kaur A.	Environmental Science and Pollution Research	2019	1	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
1076	Characterization of thermo-mechanical behavior of dough and starch digestibility profile of minor millet flat breads	Sharma B., Gujral H.S.	Journal of Cereal Science	2019	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	-
1077	Functional properties and dynamic rheology of protein isolates extracted from male and female common carp (Cyprinus carpio) muscle subjected to pH-shifting method	Singh K., Singh N., Kaur A., Virdi A.S., Dar O.I., Sharma S.	Journal of Food Processing and Preservation	2019	-	Department of Zoology, Guru Nanak Dev University, Amritsar, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India	-
1078	Tailoring the structural, electrical, optical and wettability properties of ZnSe films by oblique angle thermal evaporation	Jain R.K., Kaur J., Khanna A., Chawla A.K.	Materials Research Express	2019	1	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	-
1079	Highly sensitive and selective liquefied petroleum gas sensor based on novel ZnO–NiO heterostructures	Singh G., Singh R.C.	Journal of Materials Science: Materials in Electronics	2019	2	Department of Applied Physics, Chandigarh University, Gharuan, Mohali, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India	-





1080	Non-paraxial theory of self-focusing/defocusing of Hermite cosh Gaussian laser beam in rippled density plasmas	Pathak N., Kaur M., Kaur S., Gill T.S.	Contributions to Plasma Physics	2019	1	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India; Government Middle School, Raunt, Punjab, India	-
1081	Mixed Micellar and Interfacial Studies of Triblock Copolymers with Amphiphilic Drug Ibuprofen in Aqueous Urea Solutions	Sood A.K., Aggarwal M.	Journal of Surfactants and Detergents	2019	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143 005, India; Department of Mathematics, DAV College, Amritsar, Punjab 143 001, India	-
1082	Structural effect of SWCNTs grown by PECVD towards NH <sub>3</sub> gas sensing and field emission properties	Lone M.Y., Kumar A., Ansari N., Husain S., Zulfeqar M., Singh R.C., Husain M.	Materials Research Bulletin	2019	1	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	-
1083	Effect of Fe substitution on the structural, electrical and dielectric properties of La <sub>0.70</sub> Ca <sub>0.30</sub> MnO <sub>3</sub> cathode for SOFCs	Paul S., Manokamna, Kaur S., Malhi P.S., Singh A., Kumar A.	International Journal of Innovative Technology and Exploring Engineering	2019	-	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	-
1084	Effect of positron density and temperature on the electron acoustic waves in a magnetized dissipative plasma	Bansal S., Aggarwal M., Gill T.S.	Contributions to Plasma Physics	2019	1	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	-
1085	Physicochemical, pasting, and thermal properties of starches isolated from different adzuki bean ( <i>Vigna angularis</i> ) cultivars	Yadav U., Singh N., Arora S., Arora B.	Journal of Food Processing and Preservation	2019	2	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	-
1086	Development of qos optimized routing using artificial bee colony and tabu-ga with a mobile base station in wireless sensor network	Varsha, Bala M., Kumar M., Kumar N.	International Journal of Innovative Technology and Exploring Engineering	2019		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	-
1087	Variedly connected 1,8-naphthalimide-7-chloroquinoline conjugates: Synthesis, anti-mycobacterial and cytotoxic evaluation	Shalini, Johansen M.D., Kremer L., Kumar V.	Bioorganic Chemistry	2019	1	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	-
1088	Impact of high pressure processing on the rheological, thermal and morphological characteristics of mango kernel starch	Kaur M., Punia S., Sandhu K.S., Ahmed J.	International Journal of Biological Macromolecules	2019	3	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	-
1089	Impact of plant growth promoting rhizobacteria in the orchestration of <i>Lycopersicon esculentum</i> mill. Resistance to plant parasitic nematodes: A metabolomic approach to evaluate defense responses under field conditions	Khanna K., Sharma A., Ohri P., Bhardwaj R., Abd-Allah E.F., Hashem A., Ahmad P.	Biomolecules	2019	5	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	-



1090	Jasmonic acid application triggers detoxification of lead (Pb) toxicity in tomato through the modifications of secondary metabolites and gene expression	Bali S., Jamwal V.L., Kohli S.K., Kaur P., Tejpal R., Bhalla V., Ohri P., Gandhi S.G., Bhardwaj R., Al-Huqail A.A., Siddiqui M.H., Ali H.M., Ahmad P.	Chemosphere	2019	8	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	-
1091	Tetrabromobisphenol A induced oxidative stress and genotoxicity in fish <i>Channa punctatus</i>	Sharma P., Chadha P., Saini H.S.	Drug and Chemical Toxicology	2019	3	Department of Zoology, Guru Nanak Dev University, Amritsar, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, India	-
1092	Entropically Favoured Assembly of Pyrazine-Based Helical Fibers into Superstructures: Achiral/ Chiral Guest-Induced Chirality Transformation	Sharma S., Kataria M., Kumar M., Bhalla V.	Angewandte Chemie - International Edition	2019	1	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
1093	A perylenediimide based 'on-off' chemosensor for the detection of nucleoside triphosphates: An efficient ensemble for monitoring alkaline phosphatase activity	Mittal L.S., Sharma P., Kaur N., Singh P.	Analytical Methods	2019	4	Department of Chemistry, MG DAV College, Bathinda, 151001, India; Department of Chemistry, UGC Centre of Advanced Studies-II, Guru Nanak Dev University, Amritsar, India	-
1094	Neck circumference: A reliable indicator of the percent body fat in young male and female adults	Dhillon D.K., Koley S.	International Journal of Advanced Science and Technology	2019	-	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	-
1095	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	Ravindra K., Singh T., Mor S., Singh V., Mandal T.K., Bhatti M.S., Gahlawat S.K., Dhankhar R., Mor S., Beig G.	Science of the Total Environment	2019	25	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	-
1096	Impact of Aromatic Counter-Ions Charge Delocalization on the Micellization Behavior of Surface-Active Ionic Liquids	Singh O., Singla P., Aswal V.K., Mahajan R.K.	Langmuir	2019	2	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	-
1097	Fabrication of a Hydrazone-Based Al(III)-Selective "turn-On" Fluorescent Chemosensor and Ensuing Potential Recognition of Picric Acid	Sharma S., Dubey G., Sran B.S., Bharatam P.V., Hundal G.	ACS Omega	2019	4	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	-
1098	Effect of Starting Mn Precursor on the Structural and Ferroelectric Properties of BCT Based Solid Solutions	Chawla A., Kumar S., Singh A., Malhi P.S., Sharma S., Singh M.	Integrated Ferroelectrics	2019	2	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	-



1099	Effect of Diamagnetic Ion Substitution on Structural and Magnetic Properties of Nd <sup>3+</sup> Modified Solid Solutions	Kumar A., Sharma P., Kumar S., Singh A., Kundu R.S., Punia R.	Integrated Ferroelectrics	2019	-	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	-
1100	Synthesis, In Silico Molecular Docking, ADME Evaluation and In Vitro Antiplasmodial Activity of Pyrimidine-Based Hybrid Molecules	Chopra R., Singh L., Chibale K., Singh K.	ChemistrySelect	2019	-	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	-
1101	Theoretical Approach towards the Investigation of Linear and Second-Order Nonlinear Optical Behavior of Ferrocene-Diketopyrrolopyrrole Dyads	Kaur S., Kaur P., Singh K.	ChemistrySelect	2019	-	Department of Chemistry, UGC Centre for Advanced Studies II, Guru Nanak Dev University, AmritsarPunjab 143005, India	-
1102	Influence of nutritional and antinutritional components on dough rheology and in vitro protein & starch digestibility of minor millets	Sharma B., Gujral H.S.	Food Chemistry	2019	7	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	-
1103	CTAB Surfactant Assisted and High pH Nano-Formulations of CuO Nanoparticles Pose Greater Cytotoxic and Genotoxic Effects	Singh Z., Singh I.	Scientific Reports	2019	4	Department of Zoology, Khalsa College, Amritsar, Punjab 143001, India; Department of Physics, Khalsa College, Amritsar, Punjab 143001, India	-
1104	Electromagnetic interference (EMI) shielding and microwave dielectric properties of (Ba <sub>x</sub> Mg <sub>1-x</sub> )(Ti <sub>0.95</sub> Sn <sub>0.05</sub> )O <sub>3</sub> (x = 0.025 and 0.05) solid solutions in Ku-band	Singh J., Bahe S.	2019 IEEE MTT-S International Microwave and RF Conference, IMARC 2019	2019	-	Guru Nanak Dev University, Department of Electronics Technology, Amritsar, ndia	-
1105	Effect of Anisotropic Pressure on Electron Acoustic Oscillatory and Monotonic Shocks in Superthermal Magnetoplasma	Singh K., Saini N.S.	Radio Science	2019	1	Department of Physics, Guru Nanak Dev University, Amritsar, India	-
1106	Exploration of anti-insect potential of trypsin inhibitor purified from seeds of <i>Sapindus mukorossi</i> against <i>Bactrocera cucurbitae</i>	Samiksha, Singh D., Kesavan A.K., Sohal S.K.	Scientific Reports	2019	1	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	-
1107	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	Singh M., Malhotra J.	Photonic Network Communications	2019	7	Electronics and Communication Engineering Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India	-
1108	An Efficient Scrambled Estimator of Population Mean of Quantitative Sensitive Variable Using General Linear Transformation of Non-sensitive Auxiliary Variable	Grover L.K., Kaur A.	Communications in Mathematics and Statistics	2019	-	Department of Mathematics, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
1109	Nematicidal potential of <i>Streptomyces</i> antibiotic strain M7 against <i>Meloidogyne incognita</i>	Sharma M., Jasrotia S., Ohri P., Manhas R.K.	AMB Express	2019	-	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India	-
1110	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	Virdi A.S., Singh N., Pal P., Kaur P., Kaur A.	Food Research International	2019	-	Department of Food Science & Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-



1111	Modulation in quality attributes of dough and starch digestibility of unleavened flat bread on replacing wheat flour with different minor millet flours	Sharma B., Gujral H.S.	International Journal of Biological Macromolecules	2019	1	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India	-
1112	Ka band absorption properties of substituted nickel spinel ferrites: Comparison of open-circuit approach and short-circuit approach	Pabby K., Bindra Narang S.	Ceramics International	2019	5	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
1113	Structural insights into the binding mechanism of Plasmodium falciparum exported Hsp40-Hsp70 chaperone pair	Behl A., Mishra P.C.	Computational Biology and Chemistry	2019	-	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India	-
1114	Self-assembly of p-Aminothiophenol on Gold Surface: Application for Impedimetric and Potentiometric Sensing of Cobalt (II) Ions – A Comparative Study	Kaur S., Kaur I.	Electroanalysis	2019	2	Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab, 143005, India	-
1115	Biocontrol and plant growth promoting potential of phylogenetically new Streptomyces sp. MR14 of rhizospheric origin	Kaur T., Rani R., Manhas R.K.	AMB Express	2019	4	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
1116	Effect of $\alpha$ -glycosidase inhibitors from endophytic fungus Alternaria destruens on survival and development of insect pest Spodoptera litura Fab. and fungal phytopathogens	Kaur J., Sharma A., Sharma M., Kumari Manhas R., Kaur S., Kaur A.	Scientific Reports	2019	1	Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India	-
1117	Assessment of tumor inducing potential of lead using crown gall tumor disc bioassay	Kumar V., Bhatti S.S., Kaur S., Katnoria J.K., Nagpal A.K.	Nucleus (India)	2019	-	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India	-
1118	‘Metal free’ fluorescent anionic assemblies: Efficient platform for detection of electron deficient nitroaromatics and cationic dyes	Kataria M., Singh Z., Kumar M., Bhalla V.	Dyes and Pigments	2019	-	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, India	-
1119	Probing non-covalent interactions of phosphine and arsine derivatives: an energy decomposition analysis using localized molecular orbitals	Shiekh B.A., Kaur D., Kaur R.	Structural Chemistry	2019	-	Department of Chemistry, UGC Sponsored Centre of Advanced, z Studies-I, Guru Nanak Dev University, Amritsar, 143005, India	-
1120	A weakest link-driven global QoS adjustment approach for optimizing the execution of a composite web service	Kahlon N.K., Chahal K.K., Narang S.B.	Knowledge and Information Systems	2019	-	Department of Computer Science, Guru Nanak Dev University, Amritsar, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India	-
1121	Azolla pinnata, Aspergillus terreus and Eisenia fetida for enhancing agronomic value of paddy straw	Arora M., Kaur A.	Scientific Reports	2019	4	Department of Zoology, Guru Nanak Dev University, Punjab, 143005, India	-
1122	Interactions in the mixed micelles of monomeric and gemini surfactants: Influence of some co-solvents as a function of temperature	Sood A.K., Kaur H., Banipal T.S.	Arabian Journal of Chemistry	2019	5	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143 005, India	-
1123	IoT based assistive companion for hypersensitive individuals (ACHI) with autism spectrum disorder	Khullar V., Singh H.P., Bala M.	Asian Journal of Psychiatry	2019	1	CT Institute of Engineering, Management and Technology, Jalandhar, India; Khalsa College of Engineering and Technology, Amritsar, India; IKG Punjab Technical University, Kapurthala, India	-



1124	Molecular characterization and study of abiotic soil parameters to understand the natural habitat preference of entomopathogenic nematode <i>distolabrellus veechi</i> isolates	Parihar R.D., Singh D., Sohal S.K., Kesavan A.K., Ohri P., Pankaj	Indian Journal of Nematology	2019	-	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Division of Nematology, ICAR-IARI, New Delhi, 110 012, India	-
1125	Accumulation, morpho-physiological and oxidative stress induction by single and binary treatments of fluoride and low molecular weight phthalates in <i>Spirodela polyrhiza</i> L.Schleiden	Sharma R., Kumari A., Rajput S., Nishu, Arora S., Rampal R., Kaur R.	Scientific Reports	2019	3	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Environmental Science, University of Jammu, Jammu, 180016, India	-
1126	Adsorption of bivalent lead ions from an aqueous phase system: Equilibrium, thermodynamic, kinetics, and optimization studies	Saini S., Kumar R., Chawla J., Kaur I.	Water Environment Research	2019	-	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	-
1127	Demographic influences on consumer decisions in the banking sector: evidence from India	Kaur H., Arora S.	Journal of Financial Services Marketing	2019	1	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	-
1128	Modelling the Effects of Financial Services Advertising on Financial Product Purchase: An Empirical Validation	Dogra P., Sharma R.R.	Vision	2019	1	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	-
1129	Cholesterol bound Plasmodium falciparum co-chaperone 'PFA0660w' complexes with major virulence factor 'PfEMP1' via chaperone 'PfHsp70-x'	Behl A., Kumar V., Bisht A., Panda J.J., Hora R., Mishra P.C.	Scientific Reports	2019	2	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	-
1130	Self-Focusing of Quadruple Gaussian Laser Beam in Relativistic Plasma using Moment Theory Approach	Pathak N., Agarwal P.C., Dhriti K.M., Kaur S., Gill T.S.	2019 Workshop on Recent Advances in Photonics, WRAP 2019	2019	-	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	-
1131	Mass Transpiration in Nonlinear MHD Flow Due to Porous Stretching Sheet	Singh J., Mahabaleshwar U.S., Bognár G.	Scientific Reports	2019	5	Department of Mathematics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Mathematics, Davangere University Shivagangotri, Davangere, 577 007, India; Institute of Machine and Product Design, University of Miskolc, Miskolc-Egyetemvaros, 3515, Hungary	-
1132	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	Bhagat K., Singh A., Dhiman S., Vir Singh J., Kaur R., Kaur G., Kaur Gulati H., Singh P., Kumar R., Salwan R., Bhagat K., Singh H., Sharma S., Singh Bedi P.M.	Medicinal Chemistry Research	2019	-	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	-
1133	Development and characterization of Solid-SNEDDS formulation of DHA using hydrophilic carrier with improved shelf life, oxidative stability and therapeutic activity	Singh H., Nathani S., Singh N., Roy P., Paul S., Sohal H.S., Jain S.K.	Journal of Drug Delivery Science and Technology	2019	2	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	-
1134	DNA damage protection: an excellent application of bioactive compounds	Kaur P., Purewal S.S., Sandhu K.S., Kaur M.	Bioresources and Bioprocessing	2019	2	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	-



1135	Transcriptional profiling of contrasting genotypes revealed key candidates and nucleotide variations for drought dissection in <i>Camellia sinensis</i> (L.) O. Kuntze	Parmar R., Seth R., Singh P., Singh G., Kumar S., Sharma R.K.	Scientific Reports	2019	7	Biotechnology Department, CSIR-Institute of Himalayan Bioresource Technology (CSIR- IHB), Palampur, Himachal Pradesh 176061, India; Academy of Scientific and Innovative Research (AcSIR), CSIR-IHB, Palampur, Himachal Pradesh 176061, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, 143005, India	-
1136	Metal resistant PGPR lowered Cd uptake and expression of metal transporter genes with improved growth and photosynthetic pigments in <i>Lycopersicon esculentum</i> under metal toxicity	Khanna K., Jamwal V.L., Gandhi S.G., Ohri P., Bhardwaj R.	Scientific Reports	2019	14	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	-
1137	Scientific validation of the antimicrobial and antiproliferative potential of <i>Berberis aristata</i> DC root bark, its phytoconstituents and their biosafety	Sood H., Kumar Y., Gupta V.K., Arora D.S.	AMB Express	2019	1	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	-
1138	Simulation of Terahertz Propagation by TE Mode in Metal Dielectric Metal Waveguide	Kaur R., Kaur M., Agarwal P.C., Kaur S., Kumar G.	2019 Workshop on Recent Advances in Photonics, WRAP 2019	2019	-	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	-
1139	Comparative modeling and mutual docking of structurally uncharacterized heat shock protein 70 and heat shock factor- 1 proteins in water buffalo	Singh R., Gurao A., Rajesh C., Mishra S.K., Rani S., Behl A., Kumar V., Kataria R.S.	Veterinary World	2019	1	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	-
1140	Paper strips coated with polypyrrole-wrapped carbon nanotube composites for chemi-resistive gas sensing	Hamouma O., Kaur N., Oukil D., Mahajan A., Chehimi M.M.	Synthetic Metals	2019	3	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	-
1141	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	Kohli S.K., Bali S., Tejpal R., Bhalla V., Verma V., Bhardwaj R., Alqarawi A.A., Abd_Allah E.F., Ahmad P.	Scientific Reports	2019	8	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	-
1142	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	Khanna K., Jamwal V.L., Sharma A., Gandhi S.G., Ohri P., Bhardwaj R., Al-Huqail A.A., Siddiqui M.H., Marraiki N., Ahmad P.	AoB PLANTS	2019	-	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	-



1143	Assessment of subcellular ROS and NO metabolism in higher plants: Multifunctional signaling molecules	Kohli S.K., Khanna K., Bhardwaj R., Abd Allah E.F., Ahmad P., Corpas F.J.	Antioxidants	2019	8	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 Zaidín, Consejo Superior de Investigaciones Científicas (CSIC), C/Profesor Albareda, 1, Granada, 18008, Spain	-
1144	Global evaluation of heavy metal content in surface water bodies: A meta-analysis using heavy metal pollution indices and multivariate statistical analyses	Kumar V., Parihar R.D., Sharma A., Bakshi P., Singh Sidhu G.P., Bali A.S., Karaouzas I., Bhardwaj R., Thukral A.K., Gyasi-Agyei Y., Rodrigo-Comino J.	Chemosphere	2019	41	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 Geomorfología y Suelos, Department of Geography, University of Malaga, Malaga, 29071, Spain; Department of Physical Geography, University of Trier, Trier, 54296, Germany	-
1145	Interactive video-player to improve social smile in individuals with autism spectrum disorder	Khullar V., Bala M., Singh H.P.	Advances in Autism	2019	-	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	-
1146	Study of environment friendly bismuth incorporated lithium borate glass system for structural, gamma-ray and fast neutron shielding properties	Kaur P., Singh K.J., Kurudirek M., Thakur S.	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2019	22	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	-
1147	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	Beri A., Kaur R., Banipal P.K., Banipal T.S.	Journal of Chemical and Engineering Data	2019	-	Department of Chemistry, Guru Nanak Dev University, Amritsar Punjab, 143005, India	-
1148	Design and Applications of Small Molecular Probes for Calcium Detection	Roopa, Kumar N., Kumar M., Bhalla V.	Chemistry - An Asian Journal	2019	1	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-I, Guru Nanak Dev University, Amritsar, Punjab 143005, India	-
1149	Effect of Cr-Bi substitution on the structural, optical, electrical and magnetic properties of strontium hexaferrites	Carol T. T.T., Mohammed J., Bhat B.H., Mishra S., Godara S.K., Srivastava A.K.	Physica B: Condensed Matter	2019	4	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	-
1150	Strain dependence of the thermoelectric performance of porous armchair silicene nanoribbons	Kaur S., Randhawa D.K.K., Narang S.B.	Journal of Materials Research	2019	-	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	-
1151	Proteome Analysis of the Gametophytes of a Western Himalayan Fern Diplazium maximum Reveals Their Adaptive Responses to Changes in Their Micro-Environment	Sareen B., Thapa P., Joshi R., Bhattacharya A.	Frontiers in Plant Science	2019	-	Division of Biotechnology, CSIR-Institute of Himalayan Bioresource Technology, Palampur, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, India	-



## Annexure - XXI

**H-Index of the Institutional Publications during the academic year. (Based on Scopus/ Web of science) 2018-19**  
**h-index of Guru Nanak Dev University academic year 2018-19 was 27 based on Scopus**

Sr No	Title of the Paper	Name of Author	Title of Journal	Year of Publication	h-index	Number of Citations Excluding Self-citation	Institutional Affiliation as Mentioned in the Publication
1	Empirical model for quantification of confidentiality in OO system	Kumar R., Singh H.	International Journal of Engineering and Technology(UAE)	2018	-	-	Dept. of Computer Science, Khalsa College for Women, Amritsar, India; Dept. of Computer Science and Engineering, Guru Nanak Dev University, Amritsar, India
2	Comparative analysis of tissue compartmentalized heavy metal uptake by common forage crop: A field experiment	Bhatti S.S., Kumar V., Sambyal V., Singh J., Nagpal A.K.	Catena	2018	-	-	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 AmritsarPunjab, India
3	Control of insect pests in crop plants and stored food grains using plant saponins: A review	Singh B., Kaur A.	LWT - Food Science and Technology	2018	-	-	Post Graduate Department of Biotechnology, Khalsa College AmritsarPunjab 143002, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India
4	Investors' probable solutions to their problems: a study of Punjab	Kaur J.	International Journal of Law and Management	2018	-	-	Post Graduate Department of Commerce and Management, Khalsa College for Women, Amritsar, India
5	MX/G/1 state dependent arrival queue with optional service and vacation under randomised policy	Singh C.J., Kumar B., Kaur S.	International Journal of Industrial and Systems Engineering	2018	-	-	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
6	Interrelationship of thyroid hormones, obesity, and prolactin in infertile women	Kataria J., Gill G.K., Kaur M.	Asian Journal of Pharmaceutical and Clinical Research	2018	-	-	Department of Khalsa College of Pharmacy & Technology, Amritsar, Punjab, India
7	Oxidation of benzyl alcohol in slurry phase over nanoporous ZrV2O7 catalyst and determination of reaction mechanism using DFT	Joshi S.K., Sohani N., Khare S., Batra M.S., Prasad R.	Asian Journal of Chemistry	2018	-	-	School of Chemical Sciences, Devi Ahilya Vishwavidyalaya, Indore, 452 001, India; Department of Chemistry, Khalsa College, Amritsar, 143 002, India
8	Organic flame retardant induced oxidative stress in various organs of freshwater fish channa punctatus	Sharma P., Chadha P., Kaur M.	Pollution Research	2018	-	-	Department of Zoology, Guru Nanak Dev University, Amritsar, India
9	Custodial violence in Kashmir by the Indian security forces: A spontaneous consequence or a deliberate counter-Insurgency policy?	Deol S.S., Ganai R.A.	International Journal of Criminal Justice Sciences	2018	-	-	Department of Political Science, Guru Nanak Dev University, Amritsar, Punjab, India
10	Fuzzy link cost estimation based adaptive tree algorithm for routing optimization in wireless sensor networks using reinforcement learning	Singh K., Malhotra J.	International Journal of Sensors, Wireless Communications and Control	2018	-	-	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus Fattu Dzinga, Kapurthala, Sultanpur Lodhi, Punjab 144606, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab 144001, India
11	An insight into drought stress and signal transduction of abscisic acid	Kumari A., Kaur R., Kaur R.	Plant Science Today	2018	-	-	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India
12	Brief Communication: The 22nd edition (2018) of the sears ust of subject headings. A brief introduction	Satija M.P.	Knowledge Organization	2018	-	-	Dept. of Library and Information Science, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
13	In vitro digestibility, pasting, and structural properties of starches from different cereals	Kaur H., Gill B.S., Karwasra B.L.	International Journal of Food Properties	2018	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India





14	A bisubstrate reagent orchestrating adenosine triphosphate and L-tyrosine and making tyrosyl adenylate: Partial mimicking of tyrosyl-tRNA synthetase	Singh H., Kaur B., Kaur H., Singh P.	Organic and Biomolecular Chemistry	2018	-	-	Department of Chemistry and Centre for Advanced Studies, University with Potential for Excellence, Guru Nanak Dev University, Amritsar, 143005, India
15	Ultrafine hybrid Cu <sub>2</sub> O-Fe <sub>2</sub> O <sub>3</sub> nanoparticles stabilized by hexaphenylbenzene-based supramolecular assemblies: A photocatalytic system for the Ullmann-Goldberg coupling reaction	Singh G., Kumar M., Bhalla V.	Green Chemistry	2018	-	-	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
16	Topical Nanostructured Lipid Carrier Based Hydrogel of Mometasone Furoate for the Treatment of Psoriasis	Kaur N., Sharma K., Bedi N.	Pharmaceutical nanotechnology	2018	-	-	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India
17	Conformational analysis of thioglycine molecule: A theoretical study	Kaur R.P., Singh H.	Asian Journal of Chemistry	2018	-	-	Department of Chemistry, Guru Nanak Dev University College, Verka, Amritsar, 143 501, India; Department of Bioinformatics, Hans Raj Mahila Maha Vidyalaya, Jalandhar, 144 008, India
18	Perception of advisors' regarding behaviour of investors' while selecting wealth management services: An AHP approach	Arora A., Verma R.	International Journal of Business and Globalisation	2018	-	-	Guru Nanak Dev University College, Ladowali Road, Jalandhar, Punjab, 144001, India; Guru Nanak Dev University, Amritsar, Punjab, 143040, India
19	BDNA-A DNA inspired symmetric key cryptographic technique to secure cloud computing	Sohal M., Sharma S.	Journal of King Saud University - Computer and Information Sciences	2018	-	-	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, 143005, India
20	Hybrid genetic, variable neighbourhood search and particle swarm optimisation-based job scheduling for cloud computing	Singh R.	International Journal of Computational Science and Engineering	2018	-	-	Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India
21	Emerging role of polyamines in plant stress tolerance	Khajuria A., Sharma N., Bhardwaj R., Ohri P.	Current Protein and Peptide Science	2018	-	-	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
22	CSPCR: Cloud security, privacy and compliance readiness - A trustworthy framework	Bhatia S., Malhotra J.	International Journal of Electrical and Computer Engineering	2018	-	-	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
23	A review of denoising medical images using machine learning approaches	Kaur P., Singh G., Kaur P.	Current Medical Imaging Reviews	2018	-	-	Department of Computer Engineering & Technology, Guru Nanak Dev University, Amritsar, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, India
24	Exploring organic photosensitizers based on hemicyanine derivatives: a sustainable approach for preparation of amide linkages	Deol H., Kumar M., Bhalla V.	RSC Advances	2018	-	-	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab 143005, India
25	Walkability and Legislation: How supportive is the legislative framework as regards pedestrian concerns in the Indian cities?	Singhal M.	Proceedings of the Annual International Conference on Architecture and Civil Engineering	2018	-	-	Department of Architecture, Guru Nanak Dev University, Amritsar, India
26	Disruptive effect of pyrogallol on development of <i>Spodoptera litura</i> (Fab.) larvae	Chauhan N.S., Sohal S.K.	Journal of Biopesticides	2018	-	-	Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India
27	Colloidal systems of surface active ionic liquids and sodium carboxymethyl cellulose: physicochemical investigations and preparation of magnetic nano-composites	Singh G., Singh G., Kang T.S.	Physical Chemistry Chemical Physics	2018	-	-	Department of Chemistry, UGC-Centre for Advance Studies-II, Guru Nanak Dev University, Amritsar, 143005, India
28	Multi-residue pesticides analysis in water samples using reverse phase high performance liquid chromatography (RP- HPLC)	Rajput S., Kumari A., Arora S., Kaur R.	MethodsX	2018	-	-	Department of Botanical & Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India
29	Luminescent micellar nano-interfaces of surface active ionic liquid for the selective recognition of ADP in aqueous medium	Singh G., Kaur M., Shiekh B.A., Kang T.S.	Chemical Communications	2018	-	-	Department of Chemistry, University Grants Commission (UGC), Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India



30	Evaluation and analysis of word embedding vectors of english text using deep learning technique	Singh J., Singh G., Singh R., Singh P.	Communications in Computer and Information Science	2018	-	-	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
31	Developer dynamics and syntactic quality of commit messages in OSS projects	Chahal K.K., Saini M.	IFIP Advances in Information and Communication Technology	2018	-	-	Department of Computer Science, Guru Nanak Dev University, Amritsar, India
32	Catalytic synthesis of 3-aminooxindoles: Via addition to isatin imine: An update	Kaur J., Chimni S.S.	Organic and Biomolecular Chemistry	2018	-	-	Department of Chemistry, U.G.C. Centre of Advance Study-II, Guru Nanak Dev University, Amritsar Punjab, India
33	'2TM proteins': An antigenically diverse superfamily with variable functions and export pathways	Kaur J., Hora R.	PeerJ	2018	-	-	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India
34	Evaluation of antidiabetic and antioxidant potential of endophytic fungi isolated from medicinal plants	Kaur J., Kaur R., Kaur A.	International Journal of Green Pharmacy	2018	-	-	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab, 143 005, India
35	Morphological evaluation and sentiment analysis of Punjabi text using deep learning classification	Singh J., Singh G., Singh R., Singh P.	Journal of King Saud University - Computer and Information Sciences	2018	-	-	Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Computer Science, Faculty of Engineering and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India
36	Fashion self-congruity: scale development and validation	Anand S., Kaur H.	Journal of Fashion Marketing and Management	2018	-	-	Department of Commerce, Guru Nanak Dev University, Amritsar, India
37	Optimizing accuracy of sentiment analysis using deep learning based classification technique	Singh J., Singh G., Singh R., Singh P.	Communications in Computer and Information Science	2018	-	-	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
38	'Tilting towards south': Pattern and determinants of global value chains	Mehta S.	Seoul Journal of Economics	2018	-	-	Punjab School of Economics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
39	Influence of Twitter on prediction of election results	Singh P., Sawhney R.S.	Advances in Intelligent Systems and Computing	2018	-	-	Department of Computer Science, Guru Nanak Dev University, Amritsar, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India
40	Synthesis, Characterization and Evaluation of Surface and Thermal Properties of 3-Cyclohexyloxy-2-Hydroxypropyl Pyridinium and Imidazolium Surface-Active Ionic Liquids	Aggarwal R., Singh S.	Journal of Surfactants and Detergents	2018	-	-	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India
41	Towards incorporating context awareness to recommender systems in internet of things	Pratibha, Kaur P.D.	Smart Innovation, Systems and Technologies	2018	-	-	GNDU Regional Campus, Jalandhar, India
42	Dynamic route optimization using nature-inspired algorithms in IoV	Chowdhary N., Kaur P.D.	Smart Innovation, Systems and Technologies	2018	-	-	Department of Computer Science and Engineering, GNDU RC Jalandhar, Jalandhar, India
43	Visible-light-mediated dehydrogenative cross-coupling between terminal alkynes and aldehydes by employing a supramolecular polymeric ensemble of PBI derivative	Kataria M., Deol H., Singh G., Kumar M., Bhalla V.	New Journal of Chemistry	2018	-	-	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
44	Mixolab, retrogradation and digestibility behavior of chapatti made from hullless barley flours	Moza J., Gujral H.S.	Journal of Cereal Science	2018	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India
45	Modulation of hydration characteristics of carbohydrates in aqueous medium of $\gamma$ -amino butyric acid via volumetric, rheological and time-domain longitudinal NMR relaxation studies	Banipal P.K., Kaur K., Kaur A., Mithu V.S., Banipal T.S.	Journal of Molecular Liquids	2018	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India
46	Polyphenols in food: Cancer prevention and apoptosis induction	Sharma A., Kaur M., Katnoria J.K., Nagpal A.K.	Current Medicinal Chemistry	2018	-	-	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India
47	Pluronic-SALLs (surface active ionic liquids) mixed micelles as efficient hydrophobic quercetin drug carriers	Singla P., Singh O., Chabba S., Mahajan R.K.	Journal of Molecular Liquids	2018	-	-	Department of Chemistry, UGC-centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India
48	Absorption Characterization of Mn-Zr-Substituted La-Sr Hexaferrite Using Open-Circuit and Short-Circuit Approaches in 8.2–18 GHz Frequency Range	Narang S.B., Kaur P., Bahel S., Pubby K.	Journal of Electronic Materials	2018	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India



49	Security in IoT-based smart grid through quantum key distribution	Kaur M., Kalra S.	Advances in Intelligent Systems and Computing	2018	-	-	Department of Computer Science & Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, India
50	Investigation of ethanol gas sensing properties of Dy-doped SnO <sub>2</sub> nanostructures	Singh G., Kaur M., Arora B., Singh R.C.	Journal of Materials Science: Materials in Electronics	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India
51	Grayscale image enhancement using improved cuckoo search algorithm	Arora S., Kaur P.	Advances in Intelligent Systems and Computing	2018	-	-	Guru Nanak Dev University, Amritsar, Punjab 143001, India
52	An intelligent framework for workouts in gymnasium: M-Health perspective	Bhatia M., Sood S.K.	Computers and Electrical Engineering	2018	-	-	Guru Nanak Dev University, Regional Campus, Gurdaspur, India
53	Study of electrolytes and liver function tests in chronic alcoholism	Gill G.K., Kataria J., Singh A., Thakur L., Kaur D.	Asian Journal of Pharmaceutical and Clinical Research	2018	-	-	Department of Medical Laboratory Sciences, Khalsa College of Pharmacy and Technology, Amritsar, Punjab 143 001, India; Department of Pharmacognosy 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
54	Convergence of bidirectional PON with single-sink wireless sensor network using queue theory	Kumar L., Singh A., Sharma V.	Advances in Intelligent Systems and Computing	2018	-	-	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
55	A novel compact MIMO Planar inverted-F Antenna (PIFA) for future 5G wireless devices	Loharia N., Rana S.B., Kumar N.	International Journal of Engineering and Technology(UAE)	2018	-	-	Guru Nanak Dev University, Punjab, India; Thapar Institute of Engineering and Technology, Deemed University, Punjab, India
56	Enantioselective 1,4-Michael addition reaction of pyrazolin-5- one derivatives with 2-enoylpyridines catalyzed by: Cinchona derived squaramides	Sharma V., Kaur A., Sahoo S.C., Chimni S.S.	Organic and Biomolecular Chemistry	2018	-	-	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
57	Medicinal chemistry of acridine and its analogues	Prasher P., Sharma M.	MedChemComm	2018	-	-	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
58	Performance Estimation of Advanced Intensity Modulation Formats Using Hybrid SAC-OCMA through IsOWC Channel	Sarangal H., Thapar S.S., Singh P., Sharma I., Kaur H.	Journal of Optical Communications	2018	-	-	Guru Nanak Dev University RC Jalandhar, Jalandhar, Punjab, India; Indian Institute of Management Amritsar, Amritsar, Punjab, India
59	Development of a ROF-based System Using DQPSK through IsOWC channel for long haul data rate applications	Singh P., Sarangal H., Thapar S.S.	Journal of Optical Communications	2018	-	-	Guru Nanak Dev University RC, Punjab, Jalandhar, India; Indian Institute of Management, Punjab, Amritsar, India
60	Multifunctional metallo-supramolecular interlocked hexagonal microstructures for the detection of lead and thiols in water	Singh P., Mittal L.S., Kumar K., Sharma P., Bhargava G., Kumar S.	Chemical Communications	2018	-	-	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
61	Treatment of atopic dermatitis: Current status and future prospects	Sharma K., Sapra B., Bedi N.	Current Drug Therapy	2018	-	-	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, 147002, India
62	A novel design of compact monopole antenna with defected ground plane for wideband applications	Bhatia S.S., Sahni A., Rana S.B.	Progress In Electromagnetics Research M	2018	-	-	Yadavindra College of Engineering, Punjabi University, Guru Kashi Campus, Bathinda, Talwandi Sabo, Punjab, India; Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India
63	Clinical decision support system query optimizer using hybrid Firefly and controlled Genetic Algorithm	Sharma M., Singh G., Singh R.	Journal of King Saud University - Computer and Information Sciences	2018	-	-	Department of Computer Science and Applications, DAV University, Jalandhar, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, India
64	Ramification of hustling the web application development	Kaur D., Kaur P.	International Journal of Engineering and Technology (UAE)	2018	-	-	Lyallpur Khalsa College, Jalandhar, India; GNDU, Amritsar, India



65	Azide-alkyne cycloaddition En route to 1H-1,2,3-triazole- tethered isatin-ferrocene, ferrocenylmethoxy-isatin, and isatin-ferrocenylchalcone conjugates: Synthesis and antiproliferative evaluation	Singh A., Saha S.T., Perumal S., Kaur M., Kumar V.	ACS Omega	2018	-	-	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
66	Accurate Prediction of Life Style Based Disorders by Smart Healthcare Using Machine Learning and Prescriptive Big Data Analytics	Sharma M., Singh G., Singh R.	Advances in Parallel Computing	2018	-	-	Department of CSA, DAV University, Jalandhar, India; Guru Nanak Dev University, Amritsar, India
67	Enhanced gain in S+C band utilizing TDFA-FRA hybrid amplifier in cascaded and parallel configurations at reduced channel spacings for DWDM systems	Singh K., Kaur G., Singla S.K., Kaur P.	Journal of Optoelectronics and Advanced Materials	2018	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, Punjab 147001, India
68	Menstrual Hygiene, Management, and Waste Disposal: Practices and Challenges Faced by Girls/Women of Developing Countries	Kaur R., Kaur K., Kaur R.	Journal of Environmental and Public Health	2018	-	-	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Govt. Polytechnic College for Girls, Amritsar, India
69	Controllable supramolecular self-assemblies (rods-wires- spheres) and ICT/PET based perylene probes for palladium detection in solution and the solid state	Kumar K., Bhargava G., Kumar S., Singh P.	New Journal of Chemistry	2018	-	-	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
70	Landau damping of dust acoustic solitary waves in nonthermal plasmas	Ghai Y., Saini N.S., Eliasson B.	Physics of Plasmas	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; SUPA, Department of Physics, University of Strathclyde, Glasgow, G4 ONG, United Kingdom
71	Microwave-promoted facile access to 4-aminoquinoline-phthalimides: Synthesis and anti-plasmodial evaluation	Rani A., Singh A., Gut J., Rosenthal P.J., Kumar V.	European Journal of Medicinal Chemistry	2018	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Medicine, University of California, San Francisco, CA, United States
72	Proposed Better Sequence Alignment for Identification of Organisms Using DNA Barcode	Kaur S., Kaur S., Sood S.K.	Studies in Computational Intelligence	2018	-	-	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
73	A conceptual framework for analysing the source code dependencies	Ratti N., Kaur P.	Advances in Intelligent Systems and Computing	2018	-	-	Department of CSE, RIEIT, Railmagra, India; Department of CSE, GNDU, Amritsar, India
74	Synthesis, structures, and ESI-mass studies of silver(I) derivatives of imidazolidine-2-thiones: Antimicrobial potential and biosafety evaluation	Aulakh J.K., Lobana T.S., Sood H., Arora D.S., Smolinski V.A., Duff C.E., Jasinski J.P.	Journal of Inorganic Biochemistry	2018	-	-	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
75	Modulation of antioxidative defense expression and osmolyte content by co-application of 24-epibrassinolide and salicylic acid in Pb exposed Indian mustard plants	Kaur Kohli S., Handa N., Bali S., Arora S., Sharma A., Kaur R., Bhardwaj R.	Ecotoxicology and Environmental Safety	2018	-	-	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India; Department of Botany, DAV University, Sarmastpur, Jalandhar, 144012, India
76	Performance Evaluation of Hybrid FSO-SACOCMA System under Different Weather Conditions	Sarangal H., Singh A., Malhotra J., Thapar S.S.	Journal of Optical Communications	2018	-	-	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
77	Synthesis, structures, antimicrobial activity and biosafety evaluation of pyridine-2-formaldehyde-N-susbtituted- thiosemicarbazones of copper(ii)	Kaushal M., Lobana T.S., Nim L., Kaur J., Bala R., Hundal G., Arora D.S., Garcia-Santos I., Duff C.E., Jasinski J.P.	New Journal of Chemistry	2018	-	-	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
78	Energy efficient cognitive body area network (CBAN) using lookup table and energy harvesting	Singh M., Kumar M., Malhotra J.	Journal of Intelligent and Fuzzy Systems	2018	-	-	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



79	Multiple peaks in gel permeation chromatographs of poly(l- lactide)	Kaur P., Mehta R., Berek D.	Asian Journal of Chemistry	2018	-	-	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
80	AIE + ESIPT based red fluorescent aggregates for visualization of latent fingerprints	Singh H., Sharma R., Bhargava G., Kumar S., Singh P.	New Journal of Chemistry	2018	-	-	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
81	Synthesis, structures and antimicrobial activity of copper derivatives of N -substituted imidazolidine-2-thiones: Unusual bio-activity against Staphylococcus epidermidis and Enterococcus faecalis	Lobana T.S., Aulakh J.K., Sood H., Arora D.S., Garcia-Santos I., Kaur M., Duff C.E., Jasinski J.P.	New Journal of Chemistry	2018	-	-	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
82	Structural diversity and photo-physical and magnetic properties of dimeric to 1D polymeric coordination polymers of lighter lanthanide(III) dinitrobenzoates	Jassal A.K., Sran B.S., Suffren Y., Bernot K., Pointillart F., Cador O., Hundal G.	Dalton Transactions	2018	-	-	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
83	5,6-Benzoflavones as cholesterol esterase inhibitors: Synthesis, biological evaluation and docking studies	Singh J.V., Kaur A., Bhagat K., Gupta M.K., Singh M., Singh H., Bedi P.M.S.	MedChemComm	2018	-	-	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
84	Smart surveillance robot for real-time monitoring and control system in environment and industrial applications	Nayyar A., Puri V., Nguyen N.G., Le D.N.	Advances in Intelligent Systems and Computing	2018	-	-	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
85	Unprecedented self-assembled architectures of surface-active ionic liquids in aqueous medium	Singh G., Kaur M., Drechsler M., Kang T.S.	Chemical Communications	2018	-	-	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
86	Design, synthesis, anti-proliferative evaluation and docking studies of 1: H <sup>-</sup> -1,2,3-triazole tethered ospemifene-isatin conjugates as selective estrogen receptor modulators	Kumar S., Gu L., Palma G., Kaur M., Singh-Pillay A., Singh P., Kumar V.	New Journal of Chemistry	2018	-	-	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
87	PHISTc protein family members localize to different subcellular organelles and bind Plasmodium falciparum major virulence factor PfEMP-1	Kumar V., Kaur J., Singh A.P., Singh V., Bisht A., Panda J.J., Mishra P.C., Hora R.	FEBS Journal	2018	-	-	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
88	Protective role of selenium against chromium stress involving metabolites and essential elements in Brassica juncea L. seedlings	Handa N., Kohli S.K., Thukral A.K., Bhardwaj R., Alyemeni M.N., Wijaya L., Ahmad P.	3 Biotech	2018	-	-	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



89	Pharmacotherapeutic potential of phytochemicals: Implications in cancer chemoprevention and future perspectives	Kaur V., Kumar M., Kumar A., Kaur K., Dhillon V.S., Kaur S.	Biomedicine and Pharmacotherapy	2018	-	-	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
90	Development and validation of ultraviolet spectrophotometric method for estimation of frovatriptan succinate monohydrate in bulk and pharmaceutical dosage form	Harmanpreet S., Surajpal V., Paul S.Y., Singh N.R., Narang J.K.	Asian Journal of Pharmaceutics	2018	-	-	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
91	Jasmonic acid seed treatment stimulates insecticide detoxification in brassica juncea L.	Sharma A., Kumar V., Yuan H., Kanwar M.K., Bhardwaj R., Thukral A.K., Zheng B.	Frontiers in Plant Science	2018	-	-	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
92	Tailoring of the chlorine sensing properties of substituted metal phthalocyanines non-covalently anchored on single-walled carbon nanotubes	Sharma A.K., Mahajan A., Kumar S., Debnath A.K., Aswal D.K.	RSC Advances	2018	-	-	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
93	Synthesis, spectral characterization, antibacterial and anticancer activity of some titanium complexes	Kaushal R., Kumar N., Thakur A., Nehra K., Awasthi P., Kaushal R., Arora S.	Anti-Cancer Agents in Medicinal Chemistry	2018	-	-	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 (Sonapat), 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
94	Li doping induced physico-chemical modulations in Cd ferrite (Cd <sub>1-x</sub> Fe <sub>2-x</sub> O <sub>4-x</sub> ) synthesized using aqueous ammonia assisted co-precipitation route	Gupta M., Anu, Mudsainiyan R.K., Randhawa B.S.	Materials Science and Engineering B: Solid-State Materials for Advanced Technology	2018	-	-	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
95	Castasterone confers copper stress tolerance by regulating antioxidant enzyme responses, antioxidants, and amino acid balance in B. juncea seedlings	Yadav P., Kaur R., Kanwar M.K., Sharma A., Verma V., Sirhindi G., Bhardwaj R.	Ecotoxicology and Environmental Safety	2018	-	-	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
96	Reversible and fast responding ppb level Cl <sub>2</sub> sensor based on noncovalent modified carbon nanotubes with Hexadecafluorinated copper phthalocyanine	Sharma A.K., Mahajan A., Saini R., Bedi R.K., Kumar S., Debnath A.K., Aswal D.K.	Sensors and Actuators, B: Chemical	2018	-	-	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



97	Non-covalently anchored multi-walled carbon nanotubes with hexa-decafluorinated zinc phthalocyanine as ppb level chemiresistive chlorine sensor	Sharma A.K., Mahajan A., Bedi R.K., Kumar S., Debnath A.K., Aswal D.K.	Applied Surface Science	2018	-	-	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
98	Combined effect of 24-epibrassinolide and salicylic acid mitigates lead (Pb) toxicity by modulating various metabolites in Brassica juncea L. seedlings	Kohli S.K., Handa N., Sharma A., Gautam V., Arora S., Bhardwaj R., Alyemeni M.N., Wijaya L., Ahmad P.	Protoplasma	2018	-	-	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
99	Deranged metabolic profile and identification of biomarkers in the vitreous humour of patients with proliferative diabetic retinopathy	Sahajpal N.S., Vig V.K., Singh R., Singh H., Chaubey A., Singh K., Goel R.K., Jain S.K.	Protein and Peptide Letters	2018	-	-	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
100	4-aryl/heteroaryl-4H-fused pyrans as anti-proliferative agents: Design, synthesis and biological evaluation	Kumar D., Singh G., Sharma P., Qayum A., Mahajan G., Mintoo M.J., Singh S.K., Mondhe D.M., Bedi P.M.S., Jain S.K., Gupta G.K.	Anti-Cancer Agents in Medicinal Chemistry	2018	-	-	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
101	Aluminum and chromium substituted Z-type hexaferrites for antenna and microwave absorber applications	Basandrai D., Bedi R.K., Dhami A., Sharma J., Narang S.B., Pubby K., Gupta A., Srivastava A.K.	Journal of Sol-Gel Science and Technology	2018	-	-	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
102	Structural complexity and functional diversity of plant NADPH oxidases	Kaur G., Guruprasad K., Temple B.R.S., Shirvanyants D.G., Dokholyan N.V., Pati P.K.	Amino Acids	2018	-	-	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
103	Role of 24-epibrassinolide (EBL) in mediating heavy metal and pesticide induced oxidative stress in plants: A review	Shahzad B., Tanveer M., Che Z., Rehman A., Cheema S.A., Sharma A., Song H., Rehman S.U., Zhaorong D.	Ecotoxicology and Environmental Safety	2018	-	-	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



104	Highly Potent 1H-1,2,3-Triazole-Tethered Isatin-Metronidazole Conjugates Against Anaerobic Foodborne, Waterborne, and Sexually-Transmitted Protozoal Parasites	Kumar S., Bains T., Won Kim A.S., Tam C., Kim J., Cheng L.W., Land K.M., Debnath A., Kumar V.	Frontiers in cellular and infection microbiology	2018	-	-	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, La Jolla, San Diego, 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
105	Ecological risk assessment of metals in roadside agricultural soils: A modified approach	Bhatti S.S., Bhat S.A., Kumar V., Kaur M., Minakshi, Sambyal V., Singh J., Vig A.P., Nagpal A.K.	Human and Ecological Risk Assessment	2018	-	-	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
106	Tailor made exfoliated reduced graphene oxide nanosheets based on oxidative-exfoliation approach	Kaur A., Kaur J., Singh R.C.	Fullerenes Nanotubes and Carbon Nanostructures	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India
107	Modified KdV equation for trapped ions in polarized dusty plasma	Singh K., Kaur N., Sethi P., Saini N.S.	AIP Conference Proceedings	2018	-	-	Guru Nanak Dev University, Amritsar, Punjab, 143005, India
108	Dust ion-acoustic shock waves in magnetized pair-ion plasma with kappa distributed electrons	Kaur B., Singh M., Saini N.S.	AIP Conference Proceedings	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
109	Freak waves in dusty plasma with two temperature superthermal ions	Sethi P., Kaur N., Singh K., Saini N.S.	AIP Conference Proceedings	2018	-	-	Guru Nanak Dev University, Amritsar, Punjab, 143005, India
110	Effect of polarization force on large amplitude dust kinetic Alfvén waves	Singh M., Kohli R., Kaur N., Saini N.S.	AIP Conference Proceedings	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
111	Catalyst-Controlled Structural Divergence: Selective Intramolecular 7-endo-dig and 6-exo-dig Post-Ugi Cyclization for the Synthesis of Benzoxazepinones and Benzoxazinones	Singh K., Malviya B.K., Roy T.K., Mithu V.S., Bhardwaj V.K., Verma V.P., Chimni S.S., Sharma S.	Journal of Organic Chemistry	2018	-	-	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
112	Exogenously applied putrescine improves the physiological responses of tomato plant during nematode pathogenesis	Khajuria A., Ohri P.	Scientia Horticulturae	2018	-	-	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India
113	Rational modification of semaxanib and sunitinib for developing a tumor growth inhibitor targeting ATP binding site of tyrosine kinase	Kaur J., Kaur B., Singh P.	Bioorganic and Medicinal Chemistry Letters	2018	-	-	Department of Chemistry, UGC Sponsored Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India
114	Development of validated high-temperature reverse-phase UHPLC-PDA analytical method for simultaneous analysis of five natural isothiocyanates in cruciferous vegetables	Robin, Arora R., Arora S., Vig A.P.	Food Chemistry	2018	-	-	Department of Botanical & Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India
115	Chemical profiling of polyphenols in extracts from bark of <i>Acacia nilotica</i> (Linn.) and their efficacy against <i>Spodoptera litura</i> (Fab.)	Gautam S., Samiksha, Robin, Arora S., Sohal S.K.	Archives of Phytopathology and Plant Protection	2018	-	-	Department of Zoology, Guru Nanak Dev University, Amritsar, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India
116	Vector-Valued Nonuniform Wavelet Packets	Mittal M., Manchanda P.	Numerical Functional Analysis and Optimization	2018	-	-	Lajpat Rai D.A.V. College, Jagraon, India; Department of Mathematics, Guru Nanak Dev University, Amritsar, India
117	Characteristic study of N07718 superalloy surface prepared by cold spray	Singh H., Khosla H., Sidhu T.S., Kalsi S.B.S., Karthikeyan J.	Materials and Manufacturing Processes	2018	-	-	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., Lambert, Barberton, OH, United States





118	Surface modification of metallic biomaterials for enhanced functionality: a review	Mahajan A., Sidhu S.S.	Materials Technology	2018	-	-	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
119	Influence of anchors on the quantum transport through benzene based molecular wire	Vohra R., Sawhney R.S.	Journal of Bionanoscience	2018	-	-	Guru Nanak Dev University, Amritsar, 143005, India
120	Arbitrary amplitude dust kinetic Alfvén solitary waves in the presence of polarization force	Singh M., Kaur N., Saini N.S.	Physics of Plasmas	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
121	Silver nanoparticles anchored reduced graphene oxide for enhanced electrocatalytic activity towards methanol oxidation	Kumar S., Mahajan M., Singh R., Mahajan A.	Chemical Physics Letters	2018	-	-	Material Science Research LaboratoryDepartment of PhysicsGuru Nanak Dev University, Amritsar, 143005, India; Department of PhysicsKanya Maha Vidyalaya, Jalandhar, 144004, India
122	Glass and anti-glass phase co-existence and structural transitions in bismuth tellurite and bismuth niobium tellurite systems	Gupta N., Khanna A.	Journal of Non-Crystalline Solids	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India
123	Internet of Things-based student performance evaluation framework	Verma P., Sood S.K.	Behaviour and Information Technology	2018	-	-	Computer Science and Engineering Department, Guru Nanak Dev University, Gurdaspur, India
124	Li <sub>1.11</sub> -yTa <sub>0.89-3y</sub> Ti <sub>0.11+4y</sub> O <sub>3</sub> M-phase solid solutions: structural, dielectric and optical characterization	Kaur G., Bahel S., Narang S.B.	Journal of Materials Science: Materials in Electronics	2018	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India
125	Thermally stable microemulsions comprising imidazolium based surface active ionic liquids, non-polar ionic liquid and ethylene glycol as polar phase	Kaur M., Singh G., Kumar S., Navnidhi, Kang T.S.	Journal of Colloid and Interface Science	2018	-	-	Department of Chemistry, UGC-Centre for Advance Studies – II, Guru Nanak Dev University, Amritsar, 143005, India
126	Hydrogen bonded complexes of oxazole family: electronic structure, stability, and reactivity aspects	Chopra N., Kaur D., Chopra G.	Structural Chemistry	2018	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India
127	A closed testing procedure for comparing successive exponential populations with respect to location parameter	Singh P., Singh N.	Communications in Statistics - Theory and Methods	2018	-	-	Department of Mathematics, Guru Nanak Dev University, Amritsar, India
128	Electronic and transport properties of silicene-based ammonia nanosensors: an ab initio study	Walia G.K., Randhawa D.K.K.	Structural Chemistry	2018	-	-	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, 144007, India
129	Influence of replacing wheat bran with barley bran on dough rheology, digestibility and retrogradation behavior of chapatti	Gujral H.S., Sharma B., Khatri M.	Food Chemistry	2018	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India
130	Comparison of hydrogen- and halogen-bonding interactions in the complexes of the substituted carbonyl compounds with hypohalous acids and monohaloamines	Kaur D., Kaur R., Chopra G.	Structural Chemistry	2018	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India
131	Cluster-based single-sink wireless sensor networks and passive optical network converged network incorporating sideband modulation schemes	Kumar L., Sharma V., Singh A.	Optical Engineering	2018	-	-	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
132	Punica granatum (pomegranate) carpellary membrane and its modified form used as adsorbent for removal of cadmium (II) ions from aqueous solution	Saini S., Kumar R., Chawla J., Kaur I.	Journal of Water Supply: Research and Technology - AQUA	2018	-	-	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
133	Enhancement of gold and silver recovery from discarded computer printed circuit boards by Pseudomonas balearica SAEI using response surface methodology (RSM)	Kumar A., Saini H.S., Kumar S.	3 Biotech	2018	-	-	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
134	Physico-chemical, hydration, cooking, textural and pasting properties of different adzuki bean (Vigna angularis) accessions	Yadav U., Singh N., Kaur A., Thakur S.	Journal of Food Science and Technology	2018	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Institute of Home Economics, University of Delhi, New Delhi, India



135	Hybrid channel estimation for MIMO relay systems with Doppler offset influences	Kaur H., Khosla M., Sarin R.K.	International Journal of Communication Systems	2018	-	-	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
136	Dust ion acoustic freak waves in a plasma with two temperature electrons featuring Tsallis distribution	Chahal B.S., Singh M., Shalini, Saini N.S.	Physica A: Statistical Mechanics and its Applications	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, Lyallpur Khalsa College, Jalandhar, 144001, India
137	Bioleaching of Gold and Silver from Waste Printed Circuit Boards by Pseudomonas balearica SAE1 Isolated from an e- Waste Recycling Facility	Kumar A., Saini H.S., Kumar S.	Current Microbiology	2018	-	-	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
138	Preliminary investigation of the effect of doping of copper oxide in CaO-SiO <sub>2</sub> -P <sub>2</sub> O <sub>5</sub> -MgO bioactive composition for bone repair applications	Kaur P., Singh K.J., Yadav A.K., Sood H., Kaur S., Kaur R., Arora D.S., Kaur S.	Materials Science and Engineering C	2018	-	-	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
139	Self-assembled small molecule based fluorescent detection of serum albumin proteins: Clinical detection and cell imaging	Singh P., Mittal L.S., Kaur S., Kaur S., Bhargava G., Kumar S.	Sensors and Actuators, B: Chemical	2018	-	-	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
140	Effect of guar gum conjugation on functional, antioxidant and antimicrobial activity of egg white lysozyme	Hamdani A.M., Wani I.A., Bhat N.A., Siddiqi R.A.	Food Chemistry	2018	-	-	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
141	Fabrication of Biodegradable Superabsorbent Using RSM Design for Controlled Release of KNO <sub>3</sub>	Sharma J., Sukriti, Kaith B.S., Bhatti M.S.	Journal of Polymers and the Environment	2018	-	-	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
142	Genetic association of -1562C>T polymorphism in the MMP9 gene with primary glaucoma in a north Indian population	Thakur N., Kupani M., Pandey R.K., Mannan R., Pruthi A., Mehrotra S.	PLoS ONE	2018	-	-	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
143	Journey Heading towards Enantioselective Synthesis Assisted by Organocatalysis	Kaur J., Chauhan P., Singh S., Chimni S.S.	Chemical Record	2018	-	-	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
144	Response surface methodology for investigating structure-function relationship of grain legume proteins	Mune Mune M.A., Sogi D.S., Minka S.R.	Journal of Food Processing and Preservation	2018	-	-	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
145	Influence of different isolation methods on physicochemical and rheological properties of native and heat-moisture- treated chickpea starch	Singh S., Thakur S., Singh M., Kumar A., Kumar A., Kumar A., Punia R., Kushwaha J., Kumar R., Singh H.	Journal of Food Processing and Preservation	2018	-	-	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



146	Structural study of glasses in the system B <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -La <sub>2</sub> O <sub>3</sub> - WO <sub>3</sub>	Iordanova R., Milanova M., Aleksandrov L., Khanna A.	Journal of Non-Crystalline Solids	2018	-	-	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
147	Sol-gel route approach and improvisation in physico-chemical, structural, magnetic and electrical properties of BaCo <sub>x</sub> /2Zn <sub>x</sub> /2Zr <sub>x</sub> Fe(12-2x)O <sub>19</sub> ferrites	Kaur Jassal A., Mudsainiyan R.K., Chawla S.K., Anu, Bindra Narang S., Pubby K.	Journal of Magnetism and Magnetic Materials	2018	-	-	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
148	Crystal engineering of versatile Hg(II) halides complexes of N,N',N'-tetraalkyl substituted 3,5 pyridinedicarboxamides	Rana L.K., Sharma S., Hundal G.	Journal of Molecular Structure	2018	-	-	Department of Chemistry, Centre of Advance Studies-II, Guru Nanak Dev University, Amritsar, Punjab 143005, India
149	An effective framework for finding similar cases of dengue from audio and text data using domain thesaurus and case base reasoning	Sandhu R., Kaur J., Thapar V.	Enterprise Information Systems	2018	-	-	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
150	An azine based sensor for selective detection of Cu <sup>2+</sup> ions and its copper complex for sensing of phosphate ions in physiological conditions and in living cells	Tiwari K., Kumar S., Kumar V., Kaur J., Arora S., Mahajan R.K.	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2018	-	-	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
151	Deciphering the complexation process of a fluoroquinolone antibiotic, levofloxacin, with bovine serum albumin in the presence of additives	Kaur A., Khan I.A., Banipal P.K., Banipal T.S.	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2018	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; School of Pharmaceutical Science and Technology, Tianjin University, Tianjin, 300072, China
152	Sodium deoxycholate mediated enhanced solubilization and stability of hydrophobic drug Clozapine in pluronic micelles	Singla P., Singh O., Chabba S., Aswal V.K., Mahajan R.K.	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2018	-	-	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
153	Fluorometric differential detection of Zn <sup>2+</sup> and Cu <sup>2+</sup> by picolylamine appended pyrimidinone-based receptor: Application in mimicking TRANSFER and INH logic gate	Singh P., Singh H., Sharma R., Dhawan S., Singh P., Bhargava G., Kumar S.	Journal of Photochemistry and Photobiology A: Chemistry	2018	-	-	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
154	Synthesis, characterization and anticancer evaluation of transplatin derivatives with heterocyclic thiones	Jomaa M.Y., Altaf M., Ahmad S., Alhoshani A., Baig N., Kawde A.- N., Bhatia G., Singh J., Isab A.A.	Polyhedron	2018	-	-	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
155	Analysis of diseases in fruits using image processing techniques	Kaur K., Marwaha C.	Proceedings - International Conference on Trends in Electronics and Informatics, ICEI 2017	2018	-	-	Department of Computer Engg. and Technology, Guru Nanak Dev University, Amritsar, 143001, India



156	Transition-Metal-Catalyzed [3+2+2] Cycloaddition Reactions	Kuila B., Kaur M., Singh P., Bhargava G.	European Journal of Organic Chemistry	2018	-	-	Department of Chemical Sciences, IKG Punjab Technical University, Kapurthala, Punjab 144603, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India
157	Advanced VANET information dissemination scheme using Fuzzy logic	Singh J., Singh K.	2018 IEEE 8th Annual Computing and Communication Workshop and Conference, CCWC 2018	2018	-	-	CSE Department, Guru Nanak Dev University, Amritsar, Punjab, India
158	Dust Ion-Acoustic Shock Waves in a Multicomponent Magnetorotating Plasma	Kaur B., Saini N.S.	Zeitschrift für Naturforschung - Section A Journal of Physical Sciences	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
159	A simultaneous all-optical half/full-subtraction strategy using cascaded highly nonlinear fibers	Singh K., Kaur G., Singh M.L.	Journal of Modern Optics	2018	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; Department of Electronics & Communication Engineering, Punjabi University, Patiala, India
160	Conductivity relaxation in Pb <sub>0.9</sub> Sm <sub>0.1</sub> O <sub>3</sub> solid solution	Kaur R., Sharma V., Kumar M., Singh M., Singh A.	Journal of Alloys and Compounds	2018	-	-	Multifunctional Materials Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; DAV College, Department of Physics, Abohar, Punjab 152116, India
161	Empowering Transition-Metal-Free Cascade Protocol for the Green Synthesis of Biaryls and Alkynes	Walia P.K., Kumar M., Bhalla V.	ACS Omega	2018	-	-	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
162	Bioremediation and detoxification of industrial wastes by earthworms: Vermicompost as powerful crop nutrient in sustainable agriculture	Bhat S.A., Singh S., Singh J., Kumar S., Bhawana, Vig A.P.	Bioresource Technology	2018	-	-	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
163	Eco-friendly method for the extraction of earthworms: Comparative account of formalin, AITC and Allium cepa as extractant	Singh J., Singh S., Bhat S.A., Vig A.P., Schädler M.	Applied Soil Ecology	2018	-	-	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
164	Evaluation of benzyl-butyl phthalate induced germination and early growth vulnerability to barley seedlings ( <i>Hordeum vulgare</i> L.)	Kumari A., Kaur R.	Indian Journal of Ecology	2018	-	-	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143 005, India
165	Dynamics of electoral process of 2017 assembly elections in Punjab	Sekhon J.S., Sharma S.	Journal of Sikh and Punjab Studies	2018	-	-	Guru Nanak Dev University, Amritsar, India
166	Supramolecular Chemistry: From Molecule to Molecular Machines	Bhalla V.	Resonance	2018	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, India
167	Effect of polarization force on head-on collision between multi-solitons in dusty plasma	Singh K., Sethi P., Saini N.S.	Physics of Plasmas	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
168	Investigating the influence of electrode Miller indices alteration on electronic transport in thiophene-based molecular junctions	Kaur R., Narang S.B., Randhawa D.K.K.	Journal of Molecular Modeling	2018	-	-	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 Choggetti, Jalandhar, Punjab 144009, India
169	Nurturing a garden of IT talent at MindTree Limited	Kang L.S., Kaur N.	Global Business and Organizational Excellence	2018	-	-	Department of Commerce, Guru Nanak Dev University, Amritsar, India
170	Modeling the Elements and Effects of Global Viral Advertising Content: A Cross-cultural Framework	Sharma R.R., Kaur B.	Vision	2018	-	-	Department of Business Management, Guru Nanak Dev University Regional Campus, Gurdaspur, Punjab, India; University Business School, Guru Nanak Dev University, Amritsar, Punjab, India



171	CE-GMS: A cloud IoT-enabled grocery management system	Kaur J., Kaur P.D.	Electronic Commerce Research and Applications	2018	-	-	Computer Science, GNDU Regional Campus, Jalandhar, India
172	Effect of decreasing Mg <sup>2+</sup> and Zr <sup>4+</sup> substitution on the structural, ferroelectric and magnetic properties of BF-PT solid solutions	Chawla A., Singh A., Singh M.	Materials Today Communications	2018	-	-	Multifunctional Material Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India
173	2-(4-Amino-2-hydroxyphenyl)benzothiazole based Schiff- base: Complexation/decomplexation driven photo physical tuning of fluorescence leading to Cu <sup>2+</sup> and PO <sub>4</sub> <sup>3-</sup> detection	Kaur I., Kaur P., Singh K.	Sensors and Actuators, B: Chemical	2018	-	-	Department of Chemistry, UGC-Centre of Advanced Study-II, Guru Nanak Dev University, Amritsar, 143005, India
174	Soil amendments: a tool to reduce heavy metal uptake in crops for production of safe food	Sharma A., Nagpal A.K.	Reviews in Environmental Science and Biotechnology	2018	-	-	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India
175	Investigation of gamma ray shielding, structural and dissolution rate properties of Bi <sub>2</sub> O <sub>3</sub> -BaO-B <sub>2</sub> O <sub>3</sub> -Na <sub>2</sub> O glass system	Dogra M., Singh K.J., Kaur K., Anand V., Kaur P., Singh P., Bajwa B.S.	Radiation Physics and Chemistry	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
176	In Vitro Evaluation and Statistical Optimization of Antimicrobial Activity of Prunus cerasoides Stem Bark	Arora D.S., Mahajan H.	Applied Biochemistry and Biotechnology	2018	-	-	Microbial Technology Laboratory, Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India
177	Influence of germination period on physicochemical, pasting and antioxidant properties of Indian wheat cultivars	Karwasra B.L., Gill B.S., Kaur M., Kaur H.	Journal of Food Measurement and Characterization	2018	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India
178	Identity based secure authentication scheme based on quantum key distribution for cloud computing	Sharma G., Kalra S.	Peer-to-Peer Networking and Applications	2018	-	-	Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India
179	Bioassay guided fractionation and in vitro anti-plasmodial activity of ficus deltoidea and ficus benjamina	Mukhtar H.M., Singh A., Kaur H.	Pharmacognosy Journal	2018	-	-	S.B.S. College of Pharmacy, Patti, Tarn Taran, Punjab, India; Faculty of Pharmaceutical Sciences, IKG Punjab Technical University Punjab, India; PG Department of Chemistry, Khalsa College, Amritsar, Punjab, India
180	Estimation of indoor radon, thoron and their decay products' concentrations along with annual inhalation dose in dwellings of Punjab, India	Saini K., Sahoo B.K., Bajwa B.S.	Indoor and Built Environment	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, India; Radiological Physics and Advisory Division, Bhabha Atomic Research Centre, Mumbai, India
181	The HLA-G 14 bp insertion/deletion polymorphism and its association with soluble HLA-G levels in women with recurrent miscarriages	Kalotra V., Lall M., Verma I.C., Kaur A., Kaur A.	HLA	2018	-	-	Department of Human Genetics, Guru Nanak Dev University, Amritsar, India; Institute of Medical Genetics and Genomics, Sir Ganga Ram Hospital, New Delhi, India
182	Colorimetric metal ion sensors – A comprehensive review of the years 2011–2016	Kaur B., Kaur N., Kumar S.	Coordination Chemistry Reviews	2018	-	-	Punjab University, Chandigarh, Punjab, India; Guru Nanak Dev University Punjab, India
183	Modification of starch using low pressure radio frequency air plasma	Banura S., Thirumdas R., Kaur A., Deshmukh R.R., Annapure U.S.	LWT - Food Science and Technology	2018	-	-	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
184	Electrical relaxation and conduction mechanisms in iron doped barium strontium titanate	Kaur A., Singh L., Asokan K.	Ceramics International	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Inter- University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi, 110067, India
185	Role of earthworms in phytoremediation of cadmium (Cd) by modulating the antioxidative potential of Brassica juncea L.	Kaur P., Bali S., Sharma A., Vig A.P., Bhardwaj R.	Applied Soil Ecology	2018	-	-	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botany, DAV University Sarnastpur, Jalandhar, 144012, India
186	L-Theanine: An astounding sui generis integrant in tea	Sharma E., Joshi R., Gulati A.	Food Chemistry	2018	-	-	CSIR-Institute of Himalayan Bioresource Technology, Palampur, Himachal Pradesh, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India
187	Transverse electromagnetic Hermite-Gaussian mode-driven direct laser acceleration of electron under the influence of axial magnetic field	Ghotra H.S., Jaroszynski D., Ersfeld B., Saini N.S., Yoffe S., Kant N.	Laser and Particle Beams	2018	-	-	Department of Physics, Lovely Professional University, G. T. Road, Phagwara, Punjab 144411, India; Scottish Universities Physics Alliance (SUPA), University of Strathclyde, Glasgow, G4 0NG, United Kingdom; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India



188	Acetylenic Ester Promoted Tandem Ring Opening of Dienyl Thiazolidin-4-ones and Cyclizations: A Facile and Chemoselective Synthesis of Functionalized Pyridine-2- carboxylates	Kuila B., Kumar K., Mahajan D., Singh P., Bhargava G.	Synlett	2018	-	-	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
189	Sonochemical synthesis, characterization, thermal and semiconducting behavior of nano-sized azidopentaamminecobalt(III) complexes containing anion, CrO4 <sup>2-</sup> or Cr2O7 <sup>2-</sup>	Bala R., Behal J., Shah N.A., Rathod K.N., Prakash V., Khunt R.C.	Ultrasonics Sonochemistry	2018	-	-	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
190	Nanosystems for drug delivery of coenzyme Q10	Paroha S., Chandel A.K.S., Dubey R.D.	Environmental Chemistry Letters	2018	-	-	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
191	Castasterone and Citric Acid Supplementation Alleviates Cadmium Toxicity by Modifying Antioxidants and Organic Acids in Brassica juncea	Kaur R., Yadav P., Thukral A.K., Sharma A., Bhardwaj R., Alyemini M.N., Wijaya L., Ahmad P.	Journal of Plant Growth Regulation	2018	-	-	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
192	Semiclassical triton	Dwivedi N.R., Kaur H., Jain S.R.	European Physical Journal A	2018	-	-	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
193	Optimized reduction of graphite oxide for highly exfoliated silver nanoparticles anchored graphene sheets for dye sensitized solar cell applications	Kumar S., Singh R., Mahajan A., Bedi R.K., Saxena V., Aswal D.K.	Electrochimica Acta	2018	-	-	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
194	Expression of catalytically efficient xylanases from thermophilic fungus Malbranchea cinnamomea for synergistically enhancing hydrolysis of lignocellulosics	Basotra N., Joshi S., Satyanarayana T., Pati P.K., Tsang A., Chadha B.S.	International Journal of Biological Macromolecules	2018	-	-	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
195	Jasmonic acid-induced tolerance to root-knot nematodes in tomato plants through altered photosynthetic and antioxidative defense mechanisms	Bali S., Kaur P., Sharma A., Ohri P., Bhardwaj R., Alyemini M.N., Wijaya L., Ahmad P.	Protoplasma	2018	-	-	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



196	Structural, Morphological, Thermal, and Pasting Properties of Starches From Diverse Indian Potato Cultivars	Singh N., Kaur A., Shevkani K., Ezekiel R., Kaur P., Isono N., Noda T.	Starch/Staerke	2018	-	-	Department of Food Science and Technology, Guru Nanak Dev University Amritsar 143005, India; Central University of Punjab, Centre for Applied Agriculture Bathinda 151001, India; Central Potato Research Institute Shimla, India; Graduate School of Bioresources, Mie University, Tsu, Mie 514-8507, Japan; NARO Hokkaido Agricultural Research Center (NARO/HARC), Memuro, Hokkaido 082-0081, Japan
197	Selenium mitigates cadmium-induced oxidative stress in tomato ( <i>Solanum lycopersicum</i> L.) plants by modulating chlorophyll fluorescence, osmolyte accumulation, and antioxidant system	Alyemeni M.N., Ahanger M.A., Wijaya L., Alam P., Bhardwaj R., Ahmad P.	Protoplasma	2018	-	-	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
198	<i>Mercurius solubilis</i> attenuates scopolamine-induced memory deficits and enhances the motor coordination in mice	Kaur S., Kaur A., Singh G., Bhatti R.	International Journal of Neuroscience	2018	-	-	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India
199	Phenolic compounds as antioxidants and chemopreventive drugs from <i>Streptomyces cellulosa</i> strain TES17 isolated from rhizosphere of <i>Camellia sinensis</i>	Rani R., Arora S., Kaur J., Manhas R.K.	BMC Complementary and Alternative Medicine	2018	-	-	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
200	What determines the disclosure of managerial remuneration in India?	Kang L.S., Nanda P.	Journal of Financial Reporting and Accounting	2018	-	-	Department of Commerce, Guru Nanak Dev University, Amritsar, India
201	Establishment of LCMS Based Platform for Discovery of Quorum Sensing Inhibitors: Signal Detection in <i>Pseudomonas aeruginosa</i> PAO1	Kushwaha M., Jain S.K., Sharma N., Abrol V., Jaglan S., Vishwakarma R.A.	ACS Chemical Biology	2018	-	-	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
202	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	Kalia N., Kaur M., Sharma S., Singh J.	Frontiers in Cellular and Infection Microbiology	2018	-	-	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
203	From Dual to Discriminatory Sensing of CN-/F-Using Isomeric Molecules and Ascertained by Spectroscopic and DFT Methods	Sharma S., Singh Sran B., Singh N., Hundal G.	ChemistrySelect	2018	-	-	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
204	Analysis of workspace awareness tools in distributed software development	Kaur I., Kaur P., Singh H.	ICCT 2017 - International Conference on Intelligent Communication and Computational Techniques	2018	-	-	Dept. of Computer Science, Guru Nanak Dev University, Amritsar, India
205	Cu(II) ion based 1D coordination polymer: Its thermal, fluorescence properties, Hirshfeld surface analysis and theoretical calculations	Arora M., Jassal A.K., Chawla S.K., Mudsainiyan R.K.	Molecular Crystals and Liquid Crystals	2018	-	-	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



206	Pyrimidine-chloroquinoline hybrids: Synthesis and antiplasmodial activity	Chopra R., Chibale K., Singh K.	European Journal of Medicinal Chemistry	2018	-	-	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
207	Helical modes generate antimagnetic rotational spectra in nuclei	Malik S.S.	Physical Review C	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
208	Supramolecular modification of Carbon Nanofibers with Poly(diallyl dimethylammonium) chloride and Triton X-100 for electrochemical application	Kaur P., Shin M.-S., Park J.-S., Verma G., Sekhon S.S.	International Journal of Hydrogen Energy	2018	-	-	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
209	Effect of Ion Beam on Dust-Acoustic Waves under Transverse Perturbations in Dusty Plasma	Kohli R., Kaur N., Singh M., Saini N.S.	IEEE Transactions on Plasma Science	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Applied Sciences, Khalsa College of Engineering and Technology, Amritsar, 143001, India
210	Urban Development and Urbanisation in the Two Frontier Regions of India	Sandhu R.S.	Sociological Bulletin	2018	-	-	Department of Sociology, Guru Nanak Dev University, Amritsar, Punjab, India
211	Pharmacognostic standardizations of traditionally used hepatoprotective plant fraxinus micrantha	Singh H., Kaur S., Arora S., Singh B.	International Journal of Green Pharmacy	2018	-	-	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
212	Nitrilotriacetic acid modified bamboo charcoal (NTA-MBC): An effective adsorbent for the removal of Cr (III) and Cr (VI) from aqueous solution	Saini S., Arora S., Kirandeep, Singh B.P., Katnoria J.K., Kaur I.	Journal of Environmental Chemical Engineering	2018	-	-	Department of Botanical and Environmental Sciences, Amritsar, Punjab, India; Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab, India
213	Managing QoS degradation of component web services in a dynamic environment	Kahlon N.K., Chahal K.K., Narang S.B.	International Journal on Semantic Web and Information Systems	2018	-	-	Department of Computer Science, Guru Nanak Dev University, Amritsar, India
214	Effect of Ion Beam on Low-Frequency Cnoidal Waves in a Non-Maxwellian Dusty Plasma	Kaur N., Singh M., Kohli R., Saini N.S.	IEEE Transactions on Plasma Science	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
215	Magnetosonic cnoidal waves and solitons in a magnetized dusty plasma	Kaur N., Singh M., Saini N.S.	Physics of Plasmas	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
216	Adsorption and dissociation of sulfur-based toxic gas molecules on silicene nanoribbons: a quest for high-performance gas sensors and catalysts	Walia G.K., Randhawa D.K.K.	Journal of Molecular Modeling	2018	-	-	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Ladhewali Road, Jalandhar, Punjab 144007, India
217	Ab initio scrutiny of endohedral C20 fullerenes implanted in between gold electrodes	Kaur M., Sawhney R.S., Engles D.	Journal of Molecular Modeling	2018	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143001, India
218	Modulatory role of GSTT1 and GSTM1 in Punjabi agricultural workers exposed to pesticides	Ahluwalia M., Kaur A.	Environmental Science and Pollution Research	2018	-	-	Department of Human Genetics, Guru Nanak Dev University, Amritsar, India
219	Effect of sodium chloride on the interactions of ciprofloxacin hydrochloride with sodium dodecyl sulfate and hexadecyl trimethylammonium bromide: Conductometric and spectroscopic approach	Banipal T.S., Kaur R., Banipal P.K.	Journal of Molecular Liquids	2018	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India
220	Microwave absorption behavior and electromagnetic properties of Ni-Zr doped La-Sr hexagonal ferrite synthesized by auto-combustion method	Kaur P., Bahel S., Narang S.B.	Materials Research Bulletin	2018	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India





221	First-principles investigation on defect-induced silicene nanoribbons — A superior media for sensing NH <sub>3</sub> NO <sub>2</sub> and NO gas molecules	Walia G.K., Randhawa D.K.K.	Surface Science	2018	-	-	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, 144007, India
222	Sensitive and selective acetone sensor based on Gd doped WO <sub>3</sub> /reduced graphene oxide nanocomposite	Kaur J., Anand K., Kaur A., Singh R.C.	Sensors and Actuators, B: Chemical	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India
223	Spermidine induced aggregation of terphenyl derivative: An efficient probe for detection of spermidine in living cells	Tejpal R., Kumar M., Bhalla V.	Sensors and Actuators, B: Chemical	2018	-	-	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, India
224	Smart fluorescent AIEE active supramolecular polymeric assemblies for selective and quantitative detection of fluoride ions in aqueous media	Deol H., Kumar M., Bhalla V.	Sensors and Actuators, B: Chemical	2018	-	-	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, India
225	A Fog-Based Healthcare Framework for Chikungunya	Sood S.K., Mahajan I.	IEEE Internet of Things Journal	2018	-	-	Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus, Gurdaspur, 143521, India
226	Effect of Nonthermal Electrons and Ions on Longitudinal Dust Acoustic Solitary Waves in a Strongly Coupled Dusty Plasma	Ghai Y., Saini N.S., Singh M.	IEEE Transactions on Plasma Science	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
227	Pharmacognostic standardization and high-performance thin- layer chromatography fingerprinting of ficus infectoria leaves	Singh A., Singh V., Mehta M., Mahajan S., Satija S.	International Journal of Green Pharmacy	2018	-	-	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
228	Pharmacognostic and pharmacological screening of Psidium guajava stem extract for its analgesic potential	Mehta M., Kalsi V., Sharma N., Khurana N., Duggal N., Khatik G.L., Singh D., Mahajan S., Singh A., Satija S., Gupta R., Verma S.	International Journal of Green Pharmacy	2018	-	-	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
229	Chromatographic fingerprinting, antioxidant, and anti-inflammatory potential of Dioscorea villosa (Wild Yam) leaves	Satija S., Prince, Gupta R., Mahajan S., Sharma N., Khurana N., Kalsi V., Duggal N., Singh A., Mehta M.	International Journal of Green Pharmacy	2018	-	-	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
230	Nanoencapsulation of docosahexanoic acid (DHA) using combination of food grade polymeric wall materials and its application for improvement in bioavailability and oxidative stability	Singh H., Kumar C., Singh N., Paul S., Jain S.K.	Food and Function	2018	-	-	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
231	Dentin dysplasia type 1 - Clinical management dilemmas: A case report of first-generation sufferers	Grewal N., Gumber S., Kaur A., Kaur N.	Journal of Indian Society of Pedodontics and Preventive Dentistry	2018	-	-	Department of Pedodontics and Preventive Dentistry, GDC, S. S. S. Chowk, Amritsar, Punjab, 143 001, India; Department of Genetics, Guru Nanak Dev University, Amritsar, Punjab, India
232	Organic cultivation of ashwagandha with improved biomass and high content of active withanolides: Use of vermicompost	Kaur A., Singh B., Ohri P., Wang J., Wadhwa R., Kaul S.C., Pati P.K., Kaur A.	PLoS ONE	2018	-	-	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
233	Evaluation of micellar properties of sodium dodecylbenzene sulphonate in the presence of some salts	Sood A.K., Aggarwal M.	Journal of Chemical Sciences	2018	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143 005, India; Department of Mathematics, DAV College, Amritsar, Punjab 143 001, India
234	Diversity in protein profiling, pasting, empirical and dynamic dough rheological properties of meal from different durum wheat accessions	Katyul M., Viridi A.S., Singh N., Kaur A., Rana J.C., Kumari J.	Journal of Food Science and Technology	2018	-	-	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



235	Effect of incorporation of flaxseed to wheat rusks: Antioxidant, nutritional, sensory characteristics, and in vitro DNA damage protection activity	Kaur R., Kaur M., Purewal S.S.	Journal of Food Processing and Preservation	2018	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Biotechnology, Chaudhary Devi Lal University, Sirsa, Haryana, India
236	Association of PGC-1 $\alpha$ gene with type 2 diabetes in three unrelated endogamous groups of North-West India (Punjab): a case-control and meta-analysis study	Sharma R., Matharoo K., Kapoor R., Bhanwer A.J.S.	Molecular Genetics and Genomics	2018	-	-	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India; Heart Station and Diabetes Clinic, Amritsar, India
237	Dependence of thermal sensitivity of LPFG on waveguide and material parameters	Prashar S., Engles D., Malik S.S.	Photonic Network Communications	2018	-	-	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
238	Effect of fermentation on chemical changes in Vitis vinifera fruits used in alcoholic ayurvedic formulation	Gill G.K., Singh A., Lal U.R., Kaur H., Mehta M., Satija S., Mahajan S.	International Journal of Green Pharmacy	2018	-	-	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
239	Pharmacognostic and pharmacological screening of Ageratum conyzoides stem extract for its antianxiety potential	Satija S., Kamboj S., Kaur J., Ripdaman, Vyas M., Mehta M.	International Journal of Green Pharmacy	2018	-	-	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
240	Pharmacognostic investigations and phytochemical screening of Argyreia speciosa Linn	Kaur J., Singh R., Mehta M., Singh B., Kaur S.	International Journal of Green Pharmacy	2018	-	-	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
241	Effect of electron temperature on small-amplitude electron acoustic solitary waves in non-planar geometry	Bansal S., Aggarwal M., Gill T.S.	Journal of Astrophysics and Astronomy	2018	-	-	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
242	Ferrocenylchalcone-uracil conjugates: synthesis and cytotoxic evaluation	Singh A., Mehra V., Sadeghiani N., Mozaffari S., Parang K., Kumar V.	Medicinal Chemistry Research	2018	-	-	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
243	Morphological and anatomical studies of stem of Ageratum conyzoides	Satija S., Kamboj S., Kaur J., Mahajan S., Neeta, Sharma N., Khurana N., Vyas M., Mehta M.	International Journal of Green Pharmacy	2018	-	-	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
244	Assessment of radon concentration and heavy metal contamination in groundwater of Udhampur district, Jammu & Kashmir, India	Kumar A., Sharma S., Mehra R., Kanwar P., Mishra R., Kaur I.	Environmental Geochemistry and Health	2018	-	-	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



245	What and how to communicate about a corporate brand with the consumers: An exploratory study	Mann B.J.S., Ghuman M.K.	Journal of Marketing Communications	2018	-	-	University Business School, Guru Nanak Dev University, Amritsar, India
246	Automated blast disease detection from paddy plant leaf - A color slicing approach	Singh A., Singh M.L.	2018 7th International Conference on Industrial Technology and Management, ICITM 2018	2018	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India
247	Zinc phthalocyanine nanowires based flexible sensor for room temperature Cl <sub>2</sub> detection	Devi P., Saini R., Singh R., Mahajan A., Bedi R.K., Aswal D.K., Debnath A.K.	AIP Conference Proceedings	2018	-	-	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
248	Investigation of structural and multiferroic properties of highly tetragonally distorted BMZF-PT solid solutions	Aanchal A., Singh L., Singh A., Singh M.	AIP Conference Proceedings	2018	-	-	Multifunctional Material Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
249	Synthesis and transport characterization of electrochemically deposited CdTe nanowires	Kaur J., Kaur H., Singh R.C.	AIP Conference Proceedings	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, India
250	Hydrogen adsorption properties based on holey graphene sheets	Kaur A., Kaur J., Hastir A., Virpal V., Singh R.C.	AIP Conference Proceedings	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
251	Effect of molybdenum on gamma ray shielding and structural properties of PbO-B <sub>2</sub> O <sub>3</sub> glasses	Dogra M., Singh K.J., Kaur K.	AIP Conference Proceedings	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
252	Tungsten disulfide nanoparticles anchored on reduced graphene oxide for dye sensitized solar cell applications	Kumar S., Prakash O., Mahajan A., Saxena V.	AIP Conference Proceedings	2018	-	-	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
253	Structural and thermal properties of vanadium tellurite glasses	Kaur R., Kaur R., Khanna A., González F.	AIP Conference Proceedings	2018	-	-	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
254	Quadruple-signaling (PET, ICT, ESIP, -C[dbnd]N-rotation) mechanism-based dual chemosensor for detection of Cu <sup>2+</sup> and Zn <sup>2+</sup> ions: TRANSFER, INH and complimentary OR/NOR logic circuits	Singh H., Bhargava G., Kumar S., Singh P.	Journal of Photochemistry and Photobiology A: Chemistry	2018	-	-	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
255	Cyclopalladation of azobenzenes and their reactivity towards N-substituted imidazolidine-2-thiones and allied ligands: Synthesis, structures, spectroscopy and ESI-mass studies	Sandhu A.K., Lobana T.S., Sran B.S., Hundal G., Jasinski J.P.	Journal of Organometallic Chemistry	2018	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemistry, Keene State College, Keene, NH 03435-2001, United States
256	AIEE Active Donor-Acceptor-Donor-Based Hexaphenylbenzene Probe for Recognition of Aliphatic and Aromatic Amines	Pramanik S., Deol H., Bhalla V., Kumar M.	ACS Applied Materials and Interfaces	2018	-	-	Department of Chemistry, UGC Sponsored Centre for Advanced Studies, II Guru Nanak Dev University, Amritsar, Punjab, 143005, India
257	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	Kaur P., Singh K.J., Yadav A.K., Sood H., Kaur R., Arora D.S.	Biomedical Physics and Engineering Express	2018	-	-	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
258	Anti-biofilm properties of the fecal probiotic Lactobacilli against Vibrio spp	Kaur S., Sharma P., Kalia N., Singh J., Kaur S.	Frontiers in Cellular and Infection Microbiology	2018	-	-	Department of Microbiology, Guru Nanak Dev University, Amritsar, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, India



259	Size-tunable photoluminescence from WS 2 nanostructures	Sharma S., Singh J., Bhagat S., Singh M., Sharma S.	Materials Research Express	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
260	Myxobacteria: Producers of enormous bioactive secondary metabolites	Kaur R., Kumari A., Kaur R., Kaur R.	International Journal of Research in Pharmaceutical Sciences	2018	-	-	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
261	Negative differential resistance observation in complex convoluted fullerene junctions	Kaur M., Sawhney R.S., Engles D.	Journal of Applied Physics	2018	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, 143001, India
262	Machine learning configurations for human protein classification using SDFES	Sharma S., Singh A., Singh G., Singh R.	Journal of Theoretical and Applied Information Technology	2018	-	-	DCS, Guru Nanak Dev University, Amritsar, Punjab 143001, India
263	Multi objective integrated crossover based particle swarm optimization for load balancing in cloud data centers	Sethi N., Singh S., Singh G.	Journal of Theoretical and Applied Information Technology	2018	-	-	Department of Computer Application, IKGPTU, Jalandhar, India; Department of Computer Science and Engineering, GNDU, Amritsar, India
264	Teaching graphical simulations of Fourier series expansion of some periodic waves using spreadsheets	Singh I., Kaur B.	Physics Education	2018	-	-	P.G. Department of Physics, Khalsa College, Amritsar, 143001, India; School of Mathematics, Thapar University, Patiala, 147004, India
265	To investigate the relation between pore size and twist angle in enhanced thermoelectric efficient porous armchair graphene nanoribbons	Kaur S., Randhawa D.K.K., Narang S.B.	Materials Research Express	2018	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University, RC Jalandhar, Ladhevali, Punjab, 144007, India
266	Evaluation of antibacterial potential of Ficus species	Bhawana, Robin, Kaur J., Vig A.P., Arora S., Kaur R.	Journal of Pharmaceutical Sciences and Research	2018	-	-	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India
267	Envisaging quantum transport phenomenon in a muddled base pair of DNA	Vohra R., Sawhney R.S.	Pramana - Journal of Physics	2018	-	-	Guru Nanak Dev University, Amritsar, 143 001, India
268	Microstructural, physicochemical, antioxidant, textural and quality characteristics of wheat muffins as influenced by partial replacement with ground flaxseed	Kaur R., Kaur M.	LWT - Food Science and Technology	2018	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India
269	Comparative study of structural and functional characterization of bran protein concentrates from superfine, fine and coarse rice cultivars	Singh T.P., Sogi D.S.	International Journal of Biological Macromolecules	2018	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143 005, India
270	HEMT based 6T static random access memory cell design for high speed applications	Raj B., Narang S.B.	Journal of Computational and Theoretical Nanoscience	2018	-	-	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
271	Pharmacognostic profile of trigonella corniculata l. Seeds and effect of its aqueous extract on growth inhibition of cancer cells	Kaur P., Kataria S.K., Singh B., Arora S.	Research Journal of Pharmacy and Technology	2018	-	-	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
272	Spectrophotometric determination of triclosan based on diazotization reaction: Response surface optimization using box-behnken design	Kaur I., Gaba S., Kaur S., Kumar R., Chawla J.	Water Science and Technology	2018	-	-	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
273	Assessment of the efficiency of U-tube continuous bioreactor and immobilized enzyme beads for dye decolourization	Sharma R.K., Sharma R., Arora D.S.	3 Biotech	2018	-	-	Department of Biosciences, Manipal University, Jaipur, Rajasthan 303007, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India
274	Citation analysis of theses in economics submitted to punjabi university, Patiala during 2000-2014	Kaur A., Rattan G.K.	DESIDOC Journal of Library and Information Technology	2018	-	-	Department of Library and Information Science, Guru Nanak Dev University, Amritsar, 143 005, India; Bhai Kahn Singh Nabha Library, Punjabi University, Patiala, India



275	Enhancement of sensor response of as fabricated SWCNT sensor with gold decorated nanoparticles	Lone M.Y., Kumar A., Ansari N., Husain S., Zulfuekar M., Singh R.C., Husain M.	Sensors and Actuators, A: Physical	2018	-	-	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
276	Extraction, profiling and bioactivity analysis of volatile glucosinolates present in oil extract of Brassica juncea var. raya	Bassan P., Bhushan S., Kaur T., Arora R., Arora S., Vig A.P.	Physiology and Molecular Biology of Plants	2018	-	-	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
277	Structural, optical and photoelectrical properties of thermally annealed amorphous In <sub>15</sub> Sb <sub>15</sub> Se <sub>70</sub> chalcogenide films	Sharma S., Sharma R., Kumar P., Thangaraj R., Asokan K., Mian M.	Applied Physics A: Materials Science and Processing	2018	-	-	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
278	Purple head broccoli (Brassica oleracea L. var. italica Plenck), a functional food crop for antioxidant and anticancer potential	Chaudhary A., Choudhary S., Sharma U., Vig A.P., Singh B., Arora S.	Journal of Food Science and Technology	2018	-	-	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
279	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	Kaur L., Singh K., Paul S., Singh S., Singh S., Jain S.K.	AAPS PharmSciTech	2018	-	-	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
280	Gene encoding vesicle-associated membrane protein-associated protein from Triticum aestivum (TaVAP) confers tolerance to drought stress	Singh B., Khurana P., Khurana J.P., Singh P.	Cell Stress and Chaperones	2018	-	-	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
281	A cybersecurity framework to identify malicious edge device in fog computing and cloud-of-things environments	Sohal A.S., Sandhu R., Sood S.K., Chang V.	Computers and Security	2018	-	-	Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India; Department of Computer Science and Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University Punjab, India; IBSS, Xi'an Jiaotong-Liverpool University, Suzhou, China
282	High efficiency in vitro plant regeneration and secondary metabolite quantification from leaf explants of rhodiola imbricata	Bhardwaj A.K., Naryal A., Bhardwaj P., Warghat A.R., Arora B., Dhiman S., Saxena S., Pati P.K., Chaurasia O.P.	Pharmacognosy Journal	2018	-	-	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
283	Differential biochemical responses of Brassica Juncea to cadmium stress: Antioxidative defence system, photosynthesis and polyphenol synthesis	Kapoor D., Bhat A.A., Bhardwaj R., Kaur S., Anand R.	Pollution Research	2018	-	-	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



284	Interaction of 24-epibrassinolide and salicylic acid regulates pigment contents, antioxidative defense responses, and gene expression in Brassica juncea L. seedlings under Pb stress	Kohli S.K., Handa N., Sharma A., Gautam V., Arora S., Bhardwaj R., Wijaya L., Alyemeni M.N., Ahmad P.	Environmental Science and Pollution Research	2018	-	-	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
285	Alkylated/aminated nitroimidazoles and nitroimidazole-7- chloroquinoline conjugates: Synthesis and anti-mycobacterial evaluation	Shalini, Viljoen A., Kremer L., Kumar V.	Bioorganic and Medicinal Chemistry Letters	2018	-	-	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
286	Assessment of microbial contamination in indoor air of private maternity homes in Moga, Punjab	Kumar H., Kaur A., Kaur B., Gupta R.K., Dhanjal D.S., Kaur A., Zahoor U., Palaha R.	Journal of Clinical and Diagnostic Research	2018	-	-	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
287	Seasonal variation of mitochondria activity related and heat shock protein genes in spermatozoa of Karan Fries bulls in tropical climate	Soren S., Vir Singh S., Singh P.	Biological Rhythm Research	2018	-	-	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
288	Characteristic study of cold sprayed N06601 superalloy surface	Singh H., Khosla H., Walia G.S., Sidhu T.S., Kalsi S.B.S., Karthikeyan J.	Surface Engineering	2018	-	-	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
289	Evaluation of the gamma radiation shielding parameters of bismuth modified quaternary glass system	Kaur P., Singh K.J., Thakur S.	AIP Conference Proceedings	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, Guru Nanak Dev University, College Verka, Amritsar, Punjab, 143501, India
290	Investigation of phase segregation using Rietveld refinement in Mg doped BaTiO <sub>3</sub> solid solutions and their ferroelectric properties	Aanchal, Kaur K., Singh A., Singh M.	AIP Conference Proceedings	2018	-	-	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
291	Investigation of the effect of doping of Cr <sub>2</sub> O <sub>3</sub> on bioactivity properties of the SiO <sub>2</sub> -CaO-P <sub>2</sub> O <sub>5</sub> bioceramics	Sarin N., Singh K.J., Kaur K., Anand V., Kaur R., Singh J.	AIP Conference Proceedings	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Departement of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India
292	Luminescence in 2-dimensional WS <sub>2</sub> nanosheets	Sherma S., Bhagat S., Singh J., Singh R.C., Sharma S.	AIP Conference Proceedings	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
293	Structural and magnetically enhanced ferroelectric properties of Nd <sup>3+</sup> and Fe <sup>3+</sup> substituted Pb(Zr <sub>0.45</sub> Ti <sub>0.55</sub> )O <sub>3</sub> ceramics	Kaur R., Singh A.	AIP Conference Proceedings	2018	-	-	Multifunctional Materials Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
294	Induced dipole-dipole coupling between two atoms at a migration resonance	Kaur M., Mian M.	AIP Conference Proceedings	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
295	Doping induced changes in structural and optical properties of $\alpha$ -Fe <sub>2</sub> O <sub>3</sub>	Singh J., Sherma S., Bhagat S., Sharma S., Singh R.C.	AIP Conference Proceedings	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India



296	Synthesis and characterization of structural and magnetic properties of polyaniline-cobalt ferrite (PA-CoFe) nanocomposites	Thakur S., Kaur P., Singh L.	AIP Conference Proceedings	2018	-	-	Department of Physics, Guru Nanak Dev University, College Verka, Amritsar, Punjab, 143501, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
297	Structural and optical properties of Bi <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> -CdO-Na <sub>2</sub> O glass system for gamma ray shielding applications	Dogra M., Singh K.J., Kaur K.	AIP Conference Proceedings	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
298	Multiferroic properties in NdFeO <sub>3</sub> -PbTiO <sub>3</sub> solid solutions	Kumar S., Pal J., Kaur S., Agrawal P., Singh M., Singh A.	AIP Conference Proceedings	2018	-	-	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
299	Study of self-focusing of Non Gaussian laser beam in a plasma with density variation using moment theory approach	Pathak N., Kaur S., Singh S.	AIP Conference Proceedings	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, Central University of Rajasthan, Ajmer, Kishangarh, 305817, India
300	Effect of Pb <sup>2+</sup> substitution at A-site on structural and magnetic properties of LaMnO <sub>3</sub>	Kumar S., Pal J., Kaur S., Agrawal P., Singh M., Singh A.	AIP Conference Proceedings	2018	-	-	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
301	Structural and magnetic characterization of Ti doped cobalt ferrite (CoFe <sub>2</sub> O <sub>4</sub> )	Pal J., Kumar S., Kaur R., Agrawal P., Singh M., Singh A.	AIP Conference Proceedings	2018	-	-	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
302	$\beta$ -Lactam-Synthon Interceded Diastereoselective Synthesis of 2-Azido- $\gamma$ -amino Alcohols with Subsequent Transformations to Functionally Enriched Heterocycles	Singh A., Sharma B., Sachdeva D., Mehra V., Singh P., Kumar V.	ChemistrySelect	2018	-	-	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
303	Structural and morphological study of chemically synthesized CdSe thin films	Agrawal P., Singh R., Sharma J., Sachdeva M., Singh A., Bhargava A.	AIP Conference Proceedings	2018	-	-	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 Dugar College, Bikaner, 334001, India
304	Molecular Interactions of Saccharides and Their Derivatives with Thiamine HCl and Pyridoxine HCl Vitamins in Aqueous Solutions: Calorimetric, Viscometric, and NMR Spectroscopic Studies	Sharma M., Banipal T.S., Banipal P.K.	Journal of Chemical and Engineering Data	2018	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
305	Evaluating the resource use efficiency of government colleges in Punjab (India): A data envelopment analysis	Kaur H., Bhalla G.S.	International Journal of Law and Management	2018	-	-	Department of Commerce, Guru Nanak Dev University, Amritsar, India
306	Corporate diversification and firm performance: an empirical investigation of causality	Bhatia A., Thakur A.	International Journal of Organizational Analysis	2018	-	-	Department of Commerce, Guru Nanak Dev University, Amritsar, India
307	Proteinaceous secretory metabolites of probiotic human commensal Enterococcus hirae 20c, E. faecium 12a and L12b as antiproliferative agents against cancer cell lines	Sharma P., Kaur S., Kaur R., Kaur M., Kaur S.	Frontiers in Microbiology	2018	-	-	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



308	Dynamic chirality in mass regions A=105 and A=130	Yavahchova M.S., Tonev D., De Angelis G., Petkov P., Goutev N., Bhowmik R.K., Singh R.P., Muralithar S., Madhavan N., Kumar R., Kumar Raju M., Kaur J., Mohanto G., Singh A., Kaur N., Garg R., Shukla A., Mateva R., Geleva E., Slavchev B., Brant S.	Journal of Physics: Conference Series	2018	-	-	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
309	Usage based upon reasons: the case of electronic banking services in India	Arora S., Sandhu S.	International Journal of Bank Marketing	2018	-	-	Guru Nanak Dev University, Amritsar, India
310	Stereoselective organocatalytic synthesis of $\gamma$ , $\gamma$ - disubstituted butenolides	Sharma V., Bhardwaj V.K., Chimni S.S.	ChemistrySelect	2018	-	-	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
311	Design and Synthesis of Aza-/Oxa Heterocycle-Based Conjugates as Novel Anti-Inflammatory Agents Targeting Cyclooxygenase-2	Kaur S., Kumari P., Singh G., Bhatti R., Singh P.	ACS Omega	2018	-	-	Department of Chemistry, Centre for Advanced Studies, Amritsar, 143005, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India
312	Synthesis and Preliminary Antimicrobial Analysis of Isatin- Ferrocene and Isatin-Ferrocenyl Chalcone Conjugates	Singh A., Fong G., Liu J., Wu Y.-H., Chang K., Park W., Kim J., Tam C., Cheng L.W., Land K.M., Kumar V.	ACS Omega	2018	-	-	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
313	Transport in a fullerene terminated aromatic molecular device	Kaur R.P., Engles D.	Journal of Science: Advanced Materials and Devices	2018	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India
314	Impact of viral advertising on product promotion: An experimental study	Kaur B., Sharma R.R.	Indian Journal of Marketing	2018	-	-	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
315	Characteristics of white, yellow, purple corn accessions: phenolic profile, textural, rheological properties and muffin making potential	Trehan S., Singh N., Kaur A.	Journal of Food Science and Technology	2018	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India
316	Reactive oxygen species dynamics in roots of salt sensitive and salt tolerant cultivars of rice	Saini S., Kaur N., Pati P.K.	Analytical Biochemistry	2018	-	-	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India
317	Temperature dependent selective detection of hydrogen and acetone using Pd doped WO <sub>3</sub> /reduced graphene oxide nanocomposite	Kaur J., Anand K., Kohli N., Kaur A., Singh R.C.	Chemical Physics Letters	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India
318	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	Barna B., Badaruddoza, Kaur M., Bhanwer A.J.S.	Meta Gene	2018	-	-	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India
319	Characterization of interactions between $\beta$ -lactoglobulin with surface active ionic liquids in aqueous medium	Chabba S., Vashishat R., Mahajan R.K.	Journal of Molecular Liquids	2018	-	-	Department of Chemistry, UGC-Centre for Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India





320	Study of the structural and magnetic phase-transitions and multiferroic properties in BiFeO <sub>3</sub> -Ba <sub>0.95</sub> Ca <sub>0.05</sub> TiO <sub>3</sub> solid solutions	Pal J., Kumar S., Singh L., Singh M., Singh A.	Materials Research Bulletin	2018	-	-	Multifunctional Materials Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India
321	Fog assisted-IoT enabled patient health monitoring in smart homes	Verma P., Sood S.K.	IEEE Internet of Things Journal	2018	-	-	Department of Computer Science and Engineering, Guru Nanak Dev University, Punjab, 143521, India
322	Cloud-centric IoT based disease diagnosis healthcare framework	Verma P., Sood S.K.	Journal of Parallel and Distributed Computing	2018	-	-	Department of Computer Science and Engineering, GNDU, Regional Campus, Gurdaspur (Punjab), India
323	Chemical characteristics of fine and coarse particles during wintertime over two urban cities in north india	Kumar S., Nath S., Bhatti M.S., Yadav S.	Aerosol and Air Quality Research	2018	-	-	School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, 110067, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143001, India
324	Relativistic effects on propagation of q-Gaussian laser beam in a rippled density plasma: Application of higher order corrections	Kaur M., Agarwal P.C., Kaur S., Gill T.S.	Laser and Particle Beams	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Regional Institute of Education, Bhubaneswar, 751022, India
325	Short-range structure of barium tellurite glasses and its correlation with stress-optic response	Kaur A., Khanna A., Fábíán M.	Materials Research Express	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Centre for Energy Research, Konkoly-Thege st. 29-33, Budapest, 1121, Hungary
326	Progression of conventional hepatic cell culture models to bioengineered HepG2 cells for evaluation of herbal bioactivities	Kaur P., Robin, Mehta R.G., Arora S., Singh B.	Biotechnology Letters	2018	-	-	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
327	Genetic association study from North India to analyze association of CYP19A1 and CYP17A1 with polycystic ovary syndrome	Kaur R., Kaur T., Kaur A.	Journal of Assisted Reproduction and Genetics	2018	-	-	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Hartej Hospital, Ranjit Avenue, Amritsar, Punjab 143001, India
328	Influence of frequency and temperature on dielectric and electrical properties of Ca-substituted barium iron niobate	Puri M., Narang S.B., Bahel S.	Ceramics International	2018	-	-	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
329	IOT-based cloud framework to control Ebola virus outbreak	Sareen S., Sood S.K., Gupta S.K.	Journal of Ambient Intelligence and Humanized Computing	2018	-	-	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
330	Molecular interactions of choline based ionic liquids with water at different temperatures: An experimental study	Panda S., Singh V., Islam N., Gardas R.L.	Journal of Molecular Liquids	2018	-	-	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
331	Significant enhancement in the propagation of cosh-Gaussian laser beam in a relativistic-ponderomotive plasma using ramp density profile	Kumar H., Aggarwal M., Richa, Sharma D., Chandok S., Gill T.S.	Laser and Particle Beams	2018	-	-	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



332	Producing methane, methanol and electricity from organic waste of fermentation reaction using novel microbes	Dhiman S.S., Shrestha N., David A., Basotra N., Johnson G.R., Chadha B.S., Gadhamshetty V., Sani R.K.	Bioresource Technology	2018	-	-	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 Box 1159, Panama City, FL 32402, United States; Surface Engineering Research Centre, South Dakota School of Mines and Technology, Rapid City, SD 57701, United States
333	Ameliorative Role of Castasterone on Copper Metal Toxicity by Improving Redox Homeostasis in Brassica juncea L	Yadav P., Kaur R., Kanwar M.K., Bhardwaj R., Sirhindi G., Wijaya L., Alyemeni M.N., Ahmad P.	Journal of Plant Growth Regulation	2018	-	-	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
334	Recent Developments in the Synthesis of Pyrido[1,2- a ]benzimidazoles	Khajuria R., Rasheed S., Khajuria C., Kapoor K.K., Das P.	Synthesis (Germany)	2018	-	-	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
335	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	Kumar D., Sharma P., Nepali K., Mahajan G., Mintoo M.J., Singh A., Singh G., Mondhe D.M., Singh G., Jain S.K., Gupta G.K., Ntie-Kang F.	Heliyon	2018	-	-	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
336	Fabrication of Polythiophene-Supported Ag@Fe <sub>3</sub> O <sub>4</sub> Nanoclusters and Their Utilization as Photocatalyst in Dehydrogenative Coupling Reactions	Chopra R., Kumar M., Bhalla V.	ACS Sustainable Chemistry and Engineering	2018	-	-	Department of Chemistry, UGC-Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
337	Indolyl-isoxazolidines attenuate LPS-stimulated pro-inflammatory cytokines and increase survival in a mouse model of sepsis: Identification of potent lead	Singh G., Singh G., Bhatti R., Gupta M., Kumar A., Sharma A., Singh Ishar M.P.	European Journal of Medicinal Chemistry	2018	-	-	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



338	Performance analysis of ZnO and HfO <sub>2</sub> micro-pillars based capacitive antennas	Arora R., Rana S.B., Arya S.	Journal of Electromagnetic Waves and Applications	2018	-	-	Department of Electronics & Communication Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, India; Department of Physics & Electronics, University of Jammu, Jammu, India
339	An intelligent system for predicting and preventing Chikungunya virus	Thakur P., Kaur S.	2017 International Conference on Energy, Communication, Data Analytics and Soft Computing, ICECDS 2017	2018	-	-	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, India
340	Gerontechnology - The study of Alzheimer disease using cloud computing	Sharma J., Kaur S.	2017 International Conference on Energy, Communication, Data Analytics and Soft Computing, ICECDS 2017	2018	-	-	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, India
341	Dissymmetric Bay -Functionalized Perylenediimides	Kumar K., Bhargava G., Kumar S., Singh P.	Synlett	2018	-	-	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
342	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	Bhat M.A., Shakoor S.A., Badgal P., Soodan A.S.	Frontiers in Plant Science	2018	-	-	Plant Systematics and Biodiversity Laboratory, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India
343	Channel estimation in a MIMO relay system: Challenges & approaches channel estimation in MIMO relay system: A review	Kaur H., Khosla M., Sarin R.K.	Proceedings of the 2nd International Conference on Inventive Systems and Control, ICISC 2018	2018	-	-	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
344	Identification of a Malicious Optical Edge Device in the SDN- Based Optical Fog/Cloud Computing Network	Sood S.K., Deep Singh K.	Journal of Optical Communications	2018	-	-	Guru Nanak Dev University, Amritsar Punjab, India; Guru Nanak Dev University, Regional Campus Gurdaspur, Punjab, India
345	Earthworms as Organic Waste Managers and Biofertilizer Producers	Bhat S.A., Singh J., Vig A.P.	Waste and Biomass Valorization	2018	-	-	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; P.G. Department of Zoology, Khalsa College, Amritsar, Punjab, India
346	Infection of potato virus S and M in tomato in North-western India	Chaudhary P., Kumar S., Singh B., Hallan V., Nagpal A.K.	Journal of Plant Pathology	2018	-	-	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
347	Assessment of genotoxic effects of pesticide and vermicompost treated soil with Allium cepa test	Datta S., Singh J., Singh J., Singh S., Singh S.	Sustainable Environment Research	2018	-	-	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
348	Reduction of Accumulated Dispersion in 1Tbps S-band Long Haul DWDM Systems using ITU-653,FITU-655 and Corning Leaf fibers	Singh R., Singh M.L.	2018 International Conference on Recent Innovations in Electrical, Electronics and Communication Engineering, ICRIEEECE 2018	2018	-	-	Guru Nanak Dev University RC. Sultanpur Lodhi, Dept. of ECE, Amritsar, India; Guru Nanak Dev University, Dept. of Electronics Technology, Amritsar, India
349	Performance Evaluation of Ti:LiNbO <sub>3</sub> Mach-Zehnder Interferometer Switch at 1.3µm, 1.46µm and 1.55µm	Kaur S., Singh M., Gill H.S., Priyanka P., Singh M.L.	2018 International Conference on Recent Innovations in Electrical, Electronics and Communication Engineering, ICRIEEECE 2018	2018	-	-	Guru Nanak Dev University, Department of Electronics Technology, Amritsar, India
350	Improvement of Uniformity of Illumination for Circular LED Arrangement in VLC System	Priyanka P., Singh M., Gill H.S., Kaur S., Singh M.L.	2018 International Conference on Recent Innovations in Electrical, Electronics and Communication Engineering, ICRIEEECE 2018	2018	-	-	Guru Nanak Dev University, Dept of Electronics Technology, Amritsar, India



351	A new intuitionistic fuzzy divergence measure and its applications to handle fault diagnosis of turbine	Kumar R., Parkash O.	Italian Journal of Pure and Applied Mathematics	2018	-	-	Department of Mathematics, Guru Nanak Dev University, Amritsar, 143005, India
352	Contemplating nanometer scale transport characteristics through aromatic molecules based molecular devices	Vohra R., Sawhney R.S.	International Journal of Nanoelectronics and Materials	2018	-	-	Department of Electronic Technology, Guru Nanak Dev University, Amritsar, Punjab, India
353	Hybrid artificial bee colony and tabu search based power aware scheduling for cloud computing	Sharma P., Kaur K.	International Journal of Intelligent Systems and Applications	2018	-	-	Department of Computer Science and Engineering, Guru Nanak Dev. University, Amritsar, Punjab, India
354	Dust acoustic shock waves in magnetized dusty plasma	Ghai Y., Kaur N., Singh K., Saini N.S.	Plasma Science and Technology	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
355	Nonplanar dust acoustic solitary and rogue waves in an ion beam plasma with superthermal electrons and ions	Kaur N., Singh K., Ghai Y., Saini N.S.	Plasma Science and Technology	2018	-	-	Guru Nanak Dev University, Amritsar, 143005, India
356	Re-examining Reputation-Performance Liaison in Indian Context	Kaur A., Singh B.	Business Perspectives and Research	2018	-	-	Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India
357	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	Sharma S., Kaur I., Nagpal A.K.	Environmental Monitoring and Assessment	2018	-	-	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
358	A Fog Assisted Cyber-Physical Framework for Identifying and Preventing Coronary Heart Disease	Sood S.K., Mahajan I.	Wireless Personal Communications	2018	-	-	GNDU Regional Campus Gurdaspur, Gurdaspur, India
359	A Content Analysis of YouTube Political Advertisements: Evidence from Indian Parliamentary Elections	Sohal S., Kaur H.	Journal of Creative Communications	2018	-	-	Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India
360	A trustworthy system for secure access to patient centric sensitive information	Yachana, Kaur N., Sood S.K.	Telematics and Informatics	2018	-	-	Guru Nanak Dev University Regional Campus Gurdaspur, India
361	Synthesis, structures and antimicrobial activity of 5-nitro-salicylaldehyde-thiosemicarbazones of zinc(II) coordinated to substituted bipyridines/phenanthrolines	Kaushal M., Indoria S., Lobana T.S., Sood H., Arora D.S., Hundal G., Smolinski V.A., Kaur M., Jasinski J.P.	Polyhedron	2018	-	-	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
362	Development of qualitative pharmacognostic and high-performance thin-layer chromatographic fingerprinting of morphological similar species of genus ficus	Singh A., Mukhtar H.M., Satija S., Mehta M.	Asian Journal of Pharmaceutical and Clinical Research	2018	-	-	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 Pharmacognosy, School of Pharmaceutical Sciences, Lovely Professional University, Phagwara, Punjab, India
363	Self-focusing of an elliptic-Gaussian laser beam in relativistic ponderomotive plasma using a ramp density profile	Kumar H., Aggarwal M., Richa, Gill T.S.	Journal of the Optical Society of America B: Optical Physics	2018	-	-	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
364	Sentiment Analysis of Social Media Reviews using QOS Parameterization	Singh J., Singh G.	ICSCCC 2018 - 1st International Conference on Secure Cyber Computing and Communications	2018	-	-	Faculty of Computer Science and Engineering, Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India
365	Stacked Autoencoders Based Deep Learning Approach for Automatic Epileptic Seizure Detection	Singh K., Malhotra J.	ICSCCC 2018 - 1st International Conference on Secure Cyber Computing and Communications	2018	-	-	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
366	Gold Nanoparticles Immobilized Polymeric PBI Derivative: Productive, Portable, and Photocatalytic System for Heck Coupling	Kataria M., Kumar M., Singh Z., Bhalla V.	ACS Sustainable Chemistry and Engineering	2018	-	-	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
367	Predictive Analysis and Forecasting of SP CNX NIFTY50 using Stochastic Models	Thapar H., Shashvat K.	ICSCCC 2018 - 1st International Conference on Secure Cyber Computing and Communications	2018	-	-	Department of Computer Science and Engineering, Guru Nanak Dev University, Jalandhar, India; Department of Computer Science and Engineering, NIT, Delhi, India



368	Morphologically Robust Discrete Cosine Transform based Lossless ECG Compression with Access Control Quality	Soni N., Saini I., Singh B.	ICSCCC 2018 - 1st International Conference on Secure Cyber Computing and Communications	2018	-	-	Department of ECE, Dr. B.R. Ambedkar NIT Jalandhar, GNDU, RC, Jalandhar, India; Department of ECE, Guru Nanak Dev University, Regional Campus, Jalandhar, India
369	A Credits Based Scheduling Algorithm with K-means Clustering	Sharma V., Bala M.	ICSCCC 2018 - 1st International Conference on Secure Cyber Computing and Communications	2018	-	-	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
370	Testing the Tracking Efficiency of Commodity Exchange Traded Funds (ETFs) across the Bearish and Bullish Market Regimes: Evidence from Indian Gold ETFs	Kaur P., Singh J.	Journal of Asia-Pacific Business	2018	-	-	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India
371	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	Sharma V., Kaur R., Singh M., Selvamani R., Gupta S.M., Tiwari V.S., Karnal A.K., Singh A.	Journal of Asian Ceramic Societies	2018	-	-	Multifunctional Materials Laboratory, Physics Department, Guru Nanak Dev University, Amritsar, India; Ceramic Laboratory, Laser Materials Development and Devices Division, Raja Ramanna Centre for Advanced Technology, Indore, India
372	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	Rajesh S.Y., Singh S.K., Pandey N.K., Sharma P., Bawa P., Kumar B., Gulati M., Jain S.K., Gowthamarajan K., Singh S.	Drug Development and Industrial Pharmacy	2018	-	-	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
373	Amphiphilic Ionic Liquid-Induced Membrane Permeabilization: Binding is Not Enough	Kumar S., Scheidt H.A., Kaur N., Kaur A., Kang T.S., Huster D., Mithu V.S.	Journal of Physical Chemistry B	2018	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India; Institute for Medical Physics and Biophysics, Leipzig University, Leipzig, 04109, Germany
374	Biamphiphilic Ionic Liquids-Drug Mixtures: Interactional and Morphological Aspects	Vashishat R., Sanan R., Ray D., Aswal V.K., Mahajan R.K.	ChemistrySelect	2018	-	-	Department of Chemistry, UGC-Centre for Advanced Studies, 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
375	Sustainability reporting practices in US and UK: an empirical comparison	Bhatia A., Tuli S.	International Journal of Law and Management	2018	-	-	Department of Commerce and Business Management, Guru Nanak Dev University, Amritsar, India; Department of Commerce, Khalsa College For Women, Amritsar, India
376	Higher-component quadrupole polarizabilities: Estimations for the clock states of the alkaline-earth-metal ions	Singh S., Kaur M., Arora B., Sahoo B.K.	Physical Review A	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Atomic, Molecular and Optical Physics Division, Physical Research Laboratory, Navrangpura, Ahmedabad, 380009, India
377	Chiral Squaramide Catalyzed Enantioselective 1,6-Michael Addition of Pyrazolin-5-ones to Styrylisoxazole Derivatives	Sharma V., Kaur J., Chimni S.S.	European Journal of Organic Chemistry	2018	-	-	Department of Chemistry, U. G. C. Centre of Advance Studies in Chemistry, Guru Nanak Dev University, Amritsar, 143005, India
378	CYP2D6 (C2850T, G1846A, C100T) polymorphisms, haplotypes and MDR analysis in predicting coronary artery disease risk in north-west Indian population: A case-control study	Bhat M.A., Gandhi G.	Gene	2018	-	-	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab 143005, India
379	Rational modification of a lead molecule: Improving the antifungal activity of indole – triazole – amino acid conjugates	Mishra S., Kaur M., Chander S., Murugesan S., Nim L., Arora D.S., Singh P.	European Journal of Medicinal Chemistry	2018	-	-	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



380	Anion-controlled geometrically different Cu(II) ion-based coordination polymers and green synthetic route for copper nanoparticles: a combined experimental and computational insight	Arora M., Jassal A.K., Pandey S.K., Chawla S.K., Mudsainiyan R.K.	Journal of Coordination Chemistry	2018	-	-	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
381	ESIPT-Based Dual Chemosensor for Sequential Detection of Cd <sup>2+</sup> /Zn <sup>2+</sup> and Nucleoside Triphosphates in Water: Application in Logic Gates	Singh H., Sharma R., Bhargava G., Kumar S., Singh P.	ChemistrySelect	2018	-	-	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
382	Heavy metal contamination in soil, food crops and associated health risks for residents of Ropar wetland, Punjab, India and its environs	Sharma S., Nagpal A.K., Kaur I.	Food Chemistry	2018	-	-	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
383	Rationally Designed Circularly Arranged Sextuple Molecule with Dimethoxyphenolic Tentacles for Ample Hunting of Cyanide	Singh P., Kaur H., Singh H.	ACS Omega	2018	-	-	UGC Sponsored Centre for Advanced Studies, Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India
384	Bioactivities of phytochemicals present in tomato	Chaudhary P., Sharma A., Singh B., Nagpal A.K.	Journal of Food Science and Technology	2018	-	-	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
385	Vermiremediation and detoxification of sugar beet pulp waste using <i>Allium cepa</i> bioassay	Bhat S.A., Singh J., Vig A.P.	Energy, Ecology and Environment	2018	-	-	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
386	Effect of pruning systems on growth and yield traits of greenhouse grown bell pepper ( <i>Capsicum annuum</i> L. var. <i>grossum</i> )	Singh I., Kaur A.	Indian Journal of Agricultural Research	2018	-	-	Department of Agriculture, Khalsa College, Amritsar, Punjab, 143 001, India
387	Conventional farming reduces the activity of earthworms: Assessment of genotoxicity test of soil and vermicast	Singh J., Singh S., Vig A.P., Bhat S.A., Hundal S.S., Yin R., Schädler M.	Agriculture and Natural Resources	2018	-	-	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
388	DNA-A prominent candidate for molecular devices: A review	Vohra R., Sawhney R.S., Kumar R., Singh K.P.	Journal of Bionanoscience	2018	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143001, India
389	National Innovation System of India: An Empirical Analysis	Mehta S.	Millennial Asia	2018	-	-	Punjab School of Economics, Guru Nanak Dev University, Amritsar, Punjab, India
390	Effect of polarization force on small amplitude dust kinetic Alfvén solitary and rogue waves in a nonextensive plasma	Singh M., Kaur N., Saini N.S.	Physica A: Statistical Mechanics and its Applications	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
391	Quantum chemical study of hydrogen-bonded complexes of serine with water and H <sub>2</sub> O <sub>2</sub>	Chopra G., Chopra N., Kaur D.	Journal of Chemical Sciences	2018	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143 005, India
392	Green exfoliation of graphene nanosheets based on freezing induced volumetric expansion of carbonated water	Kaur A., Kaur J., Singh R.C.	Materials Research Express	2018	-	-	Department of Physics, Guru Nanak Dev University, G.T Road, Amritsar, 143005, India
393	Analysis of Genotoxicity of Agricultural Soils and Metal (Fe, Mn, and Zn) Accumulation in Crops	Bhatti S.S., Sambyal V., Nagpal A.K.	International Journal of Environmental Research	2018	-	-	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India



394	Population growth, urbanization and electricity - Challenges and initiatives in the state of Punjab, India	Kaur R.R., Luthra A.	Energy Strategy Reviews	2018	-	-	Guru Ramdas School of Planning, Guru Nanak Dev University, Amritsar, 143005, India
395	Performance analysis of WDM-FSO system under adverse weather conditions	Singh M.	Photonic Network Communications	2018	-	-	Guru Nanak Dev University, Regional Campus, Jalandhar, India
396	Effect of dissipative environment on collapses and revivals of a non-linear quantum oscillator	Kaur M., Arora B., Arvind	European Physical Journal D	2018	-	-	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
397	Role Reversal of the Carboxylate Group from Coordination to Hydrogen Bonding Only, in Structurally Diverse Metal-2- amino,5-Nitro-benzoates: A First Report	Jassal A.K., Sran B.S., Mandal K., Mukhopadhyay P., Hundal G.	Crystal Growth and Design	2018	-	-	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
398	P2X7 receptor polymorphisms and susceptibility to tuberculosis in a North Indian Punjabi population	Chaudhary A., Singh J.P., Sehajpal P.K., Sarin B.C.	International Journal of Tuberculosis and Lung Disease	2018	-	-	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
399	Investigation of electrical, dielectric and microwave properties of double substituted M-type Ba(1-2x)LaxNaxFe10Co0.5TiMn0.5O19 hexaferrite	Arora A., Narang S.B.	Journal of Materials Science: Materials in Electronics	2018	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; D.A.V. Institute of Engineering and Technology, Jalandhar, India
400	Effect of La-Na Doping in Co-Ti Substituted Barium Hexaferrite on Electrical and X-Band Microwave Absorption Properties	Arora A., Narang S.B.	Journal of Electronic Materials	2018	-	-	D.A.V. Institute of Engineering and Technology, Jalandhar, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India
401	Assessment of radiation dose due to intake of uranium through groundwater and its carcinogenic and non-carcinogenic risks in southwest and northeast Punjab, India	Saini K., Duggal V., Bajwa B.S.	Indoor and Built Environment	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Applied Sciences, Guru Kashi University, Bathinda, Punjab, India
402	Effect of heat-treatment on the magnetic and optical properties of Sr0.7Al0.3Fe11.4Mn0.6O19	Mohammed J., Suleiman A.B., Hafeez H.Y., Carol T.T., Sharma J., Bhadu G.R., Kumar Godara S., Srivastava A.K.	Materials Research Express	2018	-	-	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
403	Synthesis and Antimycobacterial Evaluation of Piperazyl- alkyl-Ether Linked 7-Chloroquinoline-Chalcone/Ferrocenyl Chalcone Conjugates	Singh A., Viljoen A., Kremer L., Kumar V.	ChemistrySelect	2018	-	-	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
404	In silico insights on diverse interacting partners and phosphorylation sites of respiratory burst oxidase homolog (Rboh) gene families from Arabidopsis and rice	Kaur G., Pati P.K.	BMC Plant Biology	2018	-	-	Guru Nanak Dev University (GNDU), Department of Biotechnology, Amritsar, Punjab, 143005, India; University of Tuebingen, Quantitative Biology Center (QBiC), Tuebingen, 72076, Germany
405	Cost efficiency analysis of scheduled commercial banks: empirical evidence from India	Bhatia A., Mahendru M.	Journal of Management Development	2018	-	-	Guru Nanak Dev University, Amritsar, India; Department of Commerce, Khalsa College, Amritsar, India
406	Determinants of effectiveness in public higher education-students' viewpoint	Kaur H., Bhalla G.S.	International Journal of Educational Management	2018	-	-	Department of Commerce, Guru Nanak Dev University, Amritsar, India



407	Broad-band microwave absorption of $\text{Sr}_{0.85}\text{La}_{0.15}(\text{MnZr})\text{Fe}_{12-2x}\text{O}_{19}$ hexagonal ferrite in 18–40 GHz frequency range	Kaur P., Bahel S., Narang S.B.	Journal of Magnetism and Magnetic Materials	2018	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India
408	Organocatalytic Asymmetric Decarboxylative Addition of $\beta$ - Ketoacids to Methyleneindolinones Derivatives	Kumari A., Kaur J., Bhardwaj V.K., Chimni S.S.	European Journal of Organic Chemistry	2018	-	-	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
09	Self-focusing of q-Gaussian laser beam in relativistic plasma using exponential density based transition	Aggarwal M., Richa R., Kumar H., Arora N.S., Gill T.S., Deepshikha D.	AIP Conference Proceedings	2018	-	-	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
410	Structural, surface morphological and ferroelectric properties of Ca doped $\text{BaTiO}_3$ solid solutions	Chawla A., Kaur K., Singh A., Singh M.	AIP Conference Proceedings	2018	-	-	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
411	Endothelial dysfunction and platelet hyperactivity in type 2 diabetes mellitus: Molecular insights and therapeutic strategies	Kaur R., Kaur M., Singh J.	Cardiovascular Diabetology	2018	-	-	Guru Nanak Dev University, Department of Molecular Biology and Biochemistry, Amritsar, Punjab, India; Guru Nanak Dev University, Department of Human Genetics, Amritsar, Punjab, India
412	[2+2] Cycloadditions of Sorbyl Tosylate with Imines/1-Azadienes: A One-Pot Domino Approach for $\alpha$ -Alkylidene- $\beta$ - lactams and Their Computational Studies and Antimicrobial Evaluation	Kumar Y., Bedi P.M.S., Singh P., Adeniyi A.A., Singh-Pillay A., Singh P., Bhargava G.	ChemistrySelect	2018	-	-	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 University 06800, 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-Ekiti Ekiti State, Nigeria; School of Chemistry and Physics, University of KwaZulu Natal, P/Bag X54001, Westville, Durban, 4000, South Africa
413	Effect of dilute concentrations of Sm on the temperature-dependent electrical and dielectric properties of $\text{ZnO}$	Arora D., Asokan K., Kumar S., Kaur S., Kaur P., Singh G.P., Mahajan A., Kalra S., Kalra N., Seth K., Kaur P., Singh D.P.	Journal of the American Ceramic Society	2018	-	-	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
414	Simulating Fraunhofer diffraction of waves using microsoft excel spreadsheet	Singh I., Khun Khun K., Kaur B.	Physics Education	2018	-	--	PG Department of Physics, Khalsa College, Amritsar, 143005, India; School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India
415	Microstructure and dielectric properties of LNT ( $\text{Li}_2\text{O}-\text{Nb}_2\text{O}_5-\text{TiO}_2$ ) based dielectric ceramics synthesized by solid state reaction method	Singh R., Bahel S., Bindra S.	Proceedings - 2nd International Conference on Micro-Electronics and Telecommunication Engineering, ICMETE 2018	2018	-	-	Dept. of Electronics Technology, GNDU, Amritsar, India
416	Multi-factor user authentication scheme for IoT-based healthcare services	Dhillon P.K., Kalra S.	Journal of Reliable Intelligent Environments	2018	-	-	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab 144001, India
417	Non-performing assets (NPAs) of scheduled commercial banks (SCBs) in India: Analytical revelations	Sethi A.S., Bajaj A.	Finance India	2018	-	-	Guru Nanak Dev University, Punjab School of Economics, Amritsar, Punjab 143005, India





418	Genetic association of ADIPOQ gene variants (-3971A>G and +276G>T) with obesity and metabolic syndrome in north Indian punjabi population	Kaur H., Badaruddoza B., Bains V., Kaur A.	PLoS ONE	2018	-	-	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab, India
419	An Optical-Fog assisted EEG-based virtual reality framework for enhancing E-learning through educational games	Sood S.K., Singh K.D.	Computer Applications in Engineering Education	2018	-	-	Department of Computer Science & Engineering, Guru Nanak Dev University, Gurdaspur, Punjab, India
420	Effect of polarization force on dust-acoustic cnoidal waves in dusty plasma	Singh K., Ghai Y., Kaur N., Singh Saini N.	European Physical Journal D	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
421	Arbitrary amplitude dust-ion acoustic solitary structures in electronegative plasma	Kohli R., Saini N.S., Gill T.S.	Astrophysics and Space Science	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
422	Variation in composition, protein and pasting characteristics of different pigmented and non pigmented rice ( <i>Oryza sativa</i> L.) grown in Indian Himalayan region	Kaur P., Singh N., Pal P., Kaur A.	Journal of Food Science and Technology	2018	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India
423	Density-functional study of hydrogen cyanide adsorption on silicene nanoribbons	Walia G.K., Randhawa D.K.K.	Journal of Molecular Modeling	2018	-	-	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, 144007, India
424	Traditional and improved paddy varieties: Composition, protein, pasting, and gluten-free chapati making properties	Kaur P., Singh N., Pal P., Kaur A.	Cereal Chemistry	2018	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India
425	WO <sub>3</sub> nanolamellae/reduced graphene oxide nanocomposites for highly sensitive and selective acetone sensing	Kaur J., Anand K., Anand K., Singh R.C.	Journal of Materials Science	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India
426	Withania somnifera as a Potential Anxiolytic and Anti-inflammatory Candidate Against Systemic Lipopolysaccharide-Induced Neuroinflammation	Gupta M., Kaur G.	NeuroMolecular Medicine	2018	-	-	Medical Biotechnology Laboratory, Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India
427	Benzothiazole based Schiff-base-A mechanistically discrete sensor for HSO <sub>4</sub> <sup>-</sup> and I <sup>-</sup> : Application to bioimaging and vapour phase sensing of ethyl acetate	Kaur I., Khajuria A., Ohri P., Kaur P., Singh K.	Sensors and Actuators, B: Chemical	2018	-	-	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
428	Sentiment analysis of demonetization of 500 & 1000 rupee banknotes by Indian government	Singh P., Sawhney R.S., Kahlon K.S.	ICT Express	2018	-	-	Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India
429	Dynamics of resonant energy transfer in one-dimensional chain of Rydberg atoms	Kaur M., Kaur P., Sahoo B.K., Arora B.	European Physical Journal D	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Atomic, Molecular and Optical Physics Division, Physical Research Laboratory, Navrangpura, Ahmedabad 380009, India
430	Enhancing solubility of poorly aqueous soluble drugs: critical appraisal of techniques	Singh D., Bedi N., Tiwary A.K.	Journal of Pharmaceutical Investigation	2018	-	-	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
431	Structural, morphological, functional and digestibility properties of starches from cereals, tubers and legumes: a comparative study	Bajaj R., Singh N., Kaur A., Inouchi N.	Journal of Food Science and Technology	2018	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; Department of Applied Biological Science, Fukuyama University, Fukuyama, Japan
432	Antigenotoxic potential of plant leaf extracts of <i>Parkinsonia aculeata</i> L. using <i>Allium cepa</i> assay	Sharma S., Sharma S., Vig A.P.	Plant Physiology and Biochemistry	2018	-	-	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; University of KwaZulu Natal, Westville Campus, Durban, South Africa
433	Performance analysis of Wi-Fi shaped SIW antennas	Arora R., Rana S.B., Arya S.	AEU - International Journal of Electronics and Communications	2018	-	-	Department of Electronics & Communication Engineering, Guru Nanak Dev University, Regional Campus Gurdaspur Punjab 143521, India; Department of Physics & Electronics, University of Jammu, Jammu, J&K 180006, India
434	Effect of grain hardness, fractionation and cultivars on protein, pasting and dough rheological properties of different wheat flours	Singh N., Katyal M., Virdi A.S., Kaur A., Goyal A., Ahlawat A.K., Mahendru Singh A.	International Journal of Food Science and Technology	2018	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Division of Genetics, Indian Agricultural Research Institute, New Delhi, 110012, India



435	Stability of temperature modulated convection in a vertical fluid layer	Singh J., Bajaj R.	Applied Mathematical Modelling	2018	-	-	Department of Mathematics, Guru Nanak Dev University Amritsar, India; Centre for Advanced Study in Mathematics, Panjab University Chandigarh, India
436	A practitioner's guide to designing employee surveys	Akhuly A., Bhardwaj S., Shandilya S.M.	Global Business and Organizational Excellence	2018	-	-	Indian Institute of Technology, Bombay, India; Guru Nanak Dev University in Amritsar, India; XLRI School of Management in Jamshedpur, India
437	Potentially active fluorescent drug polymer nanoconjugate for antibacterial drug delivery	Singh H., Raj T., Banipal T.S., Mehta S.K.	Indian Journal of Pharmaceutical Sciences	2018	-	-	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
438	Stability and dynamics of a cosh-Gaussian laser beam in relativistic thermal quantum plasma	Mahajan R., Richa R., Gill T.S., Kaur R., Aggarwal M.	Laser and Particle Beams	2018	-	-	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
439	Relativistic ponderomotive self-focusing of quadruple Gaussian laser beam in cold quantum plasma	Richa, Aggarwal M., Kumar H., Mahajan R., Arora N.S., Gill T.S.	Laser and Particle Beams	2018	-	-	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
440	Quality characteristics of carabeef nuggets as affected by pomegranate rind powder	Habib H., Siddiqi R.A., Dar A.H., Dar M.A., Gul K., Rashid N., Siddiqi U.S.	Journal of Food Measurement and Characterization	2018	-	-	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
441	24-Epibrassinolide; an active brassinolide and its role in salt stress tolerance in plants: A review	Tanveer M., Shahzad B., Sharma A., Biju S., Bhardwaj R.	Plant Physiology and Biochemistry	2018	-	-	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
442	Structural analysis of WO <sub>3</sub> -TeO <sub>2</sub> glasses by neutron, high energy X-ray diffraction, reverse Monte Carlo simulations and XANES	Khanna A., Fábíán M., Hirdesh, Krishna P.S.R., Benmore C.J., Kaur A., Kaur A., Shinde A.B., Rajput P., Jha S.N.	Journal of Non-Crystalline Solids	2018	-	-	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
443	Investigation of thermoluminescence and kinetic parameters of gamma ray exposed LiF: Sm <sup>3+</sup> , Eu <sup>3+</sup> nanophosphors for dosimetric applications	Kumar A., Kumar A., Dogra R., Manhas M., Sharma S., Kumar R.	Ceramics International	2018	-	-	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



444	Diazonium chemistry for making highly selective and sensitive CNT-Neutral Red hybrid-based chemiresistive acetone sensors	Bensghaier A., Kaur N., Fourati N., Zerrouki C., Lamouri A., Beji M., Mahajan A., Chehimi M.M.	Vacuum	2018	-	-	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
445	Elucidation of microwave absorption mechanisms in Co-Ga substituted Ba-Sr hexaferrites in X-band	Kaur H., Singh C., Marwaha A., Narang S.B., Jotania R., Mishra S.R., Bai Y., Raju K.C.J., Singh D., Ghimire M., Dhruv P., Sombra A.S.B.	Journal of Materials Science: Materials in Electronics	2018	-	-	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
446	Titanium based mixed ligand complexes: Synthesis, spectroscopic and in vitro antiproliferative studies	Kumar N., Kaushal R., Chaudhary A., Arora S., Awasthi P.	Inorganic and Nano-Metal Chemistry	2018	-	-	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, MMEC, Maharishi Markandeshwar Deemed to be university, Mullana, Ambala, Haryana 133207, India
447	Antiplasmodial Medicinal Plants: A Literature Review on Efficacy, Selectivity and Phytochemistry of Crude Plant Extracts	Kaur H., Mukhtar H.M., Singh A., Mahajan A.	Journal of Biologically Active Products from Nature	2018	-	-	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 UniversityPunjab, India; Department of Pharmacognosy, Khalsa College of Pharmacy, Amritsar, Punjab, India; Khalsa College of Pharmacy, Amritsar, Punjab, India
448	Antioxidant and antimutagenic activities of different fractions from the leaves of rhododendron arboreum sm. And their gc-ms profiling	Gautam V., Kohli S.K., Arora S., Bhardwaj R., Kazi M., Ahmad A., Raish M., Ganaie M.A., Ahmad P.	Molecules	2018	-	-	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



449	Supramolecular Ensemble of Perylene Bisimide Derivative and Cu <sub>2</sub> O-Ag Nanoparticles: Nano/"Dip Strip" Catalytic System for One-Pot, Three-Component Click Reaction at Room Temperature	Singh G., Kumar M., Bhalla V.	ACS Sustainable Chemistry and Engineering	2018	-	-	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
450	Comparative Analysis of Different Statistical Fading Channel Models for WIMAX System	Kaur H., Singh M.L.	International Conference on Current Trends in Computer, Electrical, Electronics and Communication, CTCEEC 2017	2018	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India
451	Impact of investment in intangible assets on corporate performance in India	Bhatia A., Aggarwal K.	International Journal of Law and Management	2018	-	-	University School of Financial Services, Guru Nanak Dev University, Amritsar, India; Department of Commerce, Pt. Mohan Lal SD College for Women, Gurdaspur, India
452	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	Singh P., Kaur S., Kumari P., Kaur B., Kaur M., Singh G., Bhatti R., Bhatti M.	Journal of Medicinal Chemistry	2018	-	-	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
453	Effect of degree of milling on physicochemical, structural, pasting and cooking properties of short and long grain Indica rice cultivars	Sandhu R.S., Singh N., Kaler R.S.S., Kaur A., Shevkani K.	Food Chemistry	2018	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Applied Agriculture, Central University of Punjab, Bathinda, 151001, India
454	Thiosemicarbazones of copper: Crystal structures of [(furan-2-acetaldehyde-N-phenyl-thiosemicarbazono)]bis(triphenylphosphine)]copper(I) and [bis(furan-2-formaldehyde-N-phenyl-thiosemicarbazono)]copper(II)	Lobana T.S., Kaushal M., Virk R.K., Garcia-Santos I., Jasinski J.P.	Polyhedron	2018	-	-	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
455	Simulation of Terahertz Multimode Propagation in Parallel Plate Waveguide of Metal	Kaur S., Kaur M., Kaur R., Kumar G.	WRAP 2017 - Workshop on Recent Advances in Photonics	2018	-	-	Guru Nanak Dev University, Department of Physics, Amritsar, 143005, India; Indian Institute of Technology, Department of Physics, Guwahati, Assam, 781039, India
456	Effect of Superthermal Polarization Force on Dust Acoustic Nonlinear Structures	Sethi P., Singh K., Saini N.S.	Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
457	Analysis of FSO based ROF-WDM System with Advance Intensity Modulation Techniques under Various Atmospheric Conditions	Singh P., Kaur H.	Proceedings of the 2nd International Conference on Electronics, Communication and Aerospace Technology, ICECA 2018	2018	-	-	Electronics and Communication Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India
458	Dressed state analysis of electromagnetically induced transparency in a five-level X-type atomic system with wavelength mismatching effects	Kaur A., Kaur P.	Physica Scripta	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
459	Channel Estimation in MIMO-OFDM System: A Review	Kaur H., Khosla M., Sarin R.K.	Proceedings of the 2nd International Conference on Electronics, Communication and Aerospace Technology, ICECA 2018	2018	-	-	Department of Electronics and Communication Engg., GNDU RC, Jalandhar, India; Department of Electronics and Communication Engg., NIT, Jalandhar, India
460	Phenolic compounds as beneficial phytochemicals in pomegranate (Punica granatum L.) peel: A review	Singh B., Singh J.P., Kaur A., Singh N.	Food Chemistry	2018	-	-	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
461	1 H-1,2,3-Triazole Tethered Nitroimidazole-Isatin Conjugates: Synthesis, Docking, and Anti-Proliferative Evaluation against Breast Cancer	Kumar S., Saha S.T., Gu L., Palma G., Perumal S., Singh-Pillay A., Singh P., Anand A., Kaur M., Kumar V.	ACS Omega	2018	-	-	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



462	Spectroscopic investigations of Sm <sup>3+</sup> -doped lead alumino- borate glasses containing zinc, lithium and barium oxides	Mohan S., Kaur S., Kaur P., Singh D.P.	Journal of Alloys and Compounds	2018	-	-	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
463	Blue-yellow emission adjustability with aluminium incorporation for cool to warm white light generation in dysprosium doped borate glasses	Kaur S., Arora D., Kumar S., Singh G., Mohan S., Kaur P., Kriti, Kaur P., Singh D.P.	Journal of Luminescence	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, Khalsa College, Amritsar, 143005, India; Department of Physics, BBK DAV College Amritsar 143005, India; Department of Mathematics, Guru Nanak Dev University, Amritsar, 143005, India
464	Quantum tunneling through aromatic molecular junctions for molecular devices: A review	Kaur R.P., Sawhney R.S., Engles D.	Chinese Journal of Physics	2018	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India
465	Tinospora cordifolia as a potential neuroregenerative candidate against glutamate induced excitotoxicity: An in vitro perspective 11 Medical and Health Sciences 1109 Neurosciences	Sharma A., Kaur G.	BMC Complementary and Alternative Medicine	2018	-	-	Department of Biotechnology, Medical Biotechnology Lab, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
466	Insights into fluoride-induced oxidative stress and antioxidant defences in plants	Sharma R., Kaur R.	Acta Physiologiae Plantarum	2018	-	-	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India
467	A lightweight multi-factor secure smart card based remote user authentication scheme for cloud-IoT applications	Sharma G., Kalra S.	Journal of Information Security and Applications	2018	-	-	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India
468	Modeling protein-protein interactions through alanine-amide hydrogen bonds	Chopra G., Kaur D., Chopra N.	Structural Chemistry	2018	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India
469	Cloud-centric IoT based student healthcare monitoring framework	Verma P., Sood S.K., Kalra S.	Journal of Ambient Intelligence and Humanized Computing	2018	-	-	Guru Nanak Dev University, Amritsar, India
470	Effect of seasonality and fruit ripening stages on bioactive constituents and antioxidant potential of guava fruit cultivars	Shukla S., Kaur D., Kaur S., Prasad R.	Plant Archives	2018	-	-	Centre of Food Technology, University of Allahabad, India; Khalsa College, Amritsar, Punjab, India; Kulbhaskar Ashram Degree College, Allahabad, India
471	Kyasanur Forest Disease Classification Framework Using Novel Extremal Optimization Tuned Neural Network in Fog Computing Environment	Majumdar A., Debnath T., Sood S.K., Baishnab K.L.	Journal of Medical Systems	2018	-	-	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
472	A novel mutation in the PRPF31 in a North Indian adRP family with incomplete penetrance	Bhatia S., Goyal S., Singh I.R., Singh D., Vanita V.	Documenta Ophthalmologica	2018	-	-	Department of Human Genetics, Guru Nanak Dev University (GNDU), Amritsar, Punjab 143005, India; Dr. Daljit Singh Eye Hospital, Amritsar, Punjab, India
473	Characterization of mucilages extracted from different flaxseed (Linum usitatissimum L.) cultivars: A heteropolysaccharide with desirable functional and rheological properties	Kaur M., Kaur R., Punia S.	International Journal of Biological Macromolecules	2018	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; Department of Food Science and Technology, Chaudhary Devi Lal University, Sirsa, India
474	Acute inhalation toxicity study of n-heneicosane and its combination with diflubenzuron: An attracticide of Aedes aegypti	Gautam A., Singh D., Shrivastava P., Vijayaraghavan R.	Toxicology and Industrial Health	2018	-	-	Division of CBRN Defence, Institute of Nuclear Medicine and Allied Sciences, Delhi, India; Department of Pharmacology, Khalsa College of Pharmacy, Amritsar, India; QuantilesIMS, Bangalore, India; Saveetha University, Chennai, India
475	Trust in open source software development communities: A comprehensive analysis	Sohal A.S., Gupta S.K., Singh H.	International Journal of Open Source Software and Processes	2018	-	-	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



476	Replication of MACF1 gene variant rs2296172 with type 2 diabetes susceptibility in the Bania population group of Punjab, India	Sharma V., Sethi I., Sharma I., Singh G., Mahajan A., Angural A., Bhanwer A.J.S., Dhar M.K., Pandita K.K., Singh V., Rai E., Sharma S.	International Journal of Diabetes in Developing Countries	2018	-	-	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
477	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	Sharma P., Singh S.K., Pandey N.K., Rajesh S.Y., Bawa P., Kumar B., Gulati M., Singh S., Verma S., Yadav A.K., Wadhwa S., Jain S.K., Gowthamarajan K., Malik A.H., Gupta S., Khursheed R.	Powder Technology	2018	-	-	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
478	Structural, optical and thermal properties of glass and anti- glass phases in strontium tellurite and borotellurite systems doped with europium	Kaur R., Khanna A., González- Barriuso M., González F., Chen B.	Materials Research Bulletin	2018	-	-	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
479	Spermine detection from urine and blood serum using ionic self-assembly of benzimidazolium based dipod and dodecylsulfate	Tripathi N., Singh P., Luxami V., Mahajan D., Kumar S.	Sensors and Actuators, B: Chemical	2018	-	-	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
480	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	Kumari P., Lobana T.S., Butcher R.J., Castineiras A., Zeller M.	Inorganica Chimica Acta	2018	-	-	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
481	Frovatriptan loaded hydroxy propyl methyl cellulose/treated chitosan based composite fast dissolving sublingual films for management of migraine	Singh H., Singla Y.P., Narang R.S., Pandita D., Singh S., Narang J.K.	Journal of Drug Delivery Science and Technology	2018	-	-	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
482	Microwave attenuation of cobalt-tin substituted barium-strontium hexagonal ferrite	Singh J., Singh C., Joshi R., Bindra Narang S.	Proceedings - 2nd International Conference on Intelligent Circuits and Systems, ICICS 2018	2018	-	-	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
483	Remote sensing image fusion using fuzzy logic and gyrator transform	Singh D., Kaur M., Singh H.	Remote Sensing Letters	2018	-	-	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



484	Copper (50 MeV) and Oxygen (84 MeV) Ion Irradiation Probed Thermal, Structural and Optical Behavior of Polyethylene Terephthalate	Samra K.S., Singh R., Singh L.	Journal of Macromolecular Science, Part B: Physics	2018	-	-	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
485	Correlation between multiferroic properties and processing parameters in NdFeO <sub>3</sub> -PbTiO <sub>3</sub> solid solutions	Kumar S., Pal J., Kaur S., Sharma V., Dahiya S., Babu P.D., Singh M., Ray A., Maitra T., Singh A.	Journal of Alloys and Compounds	2018	-	-	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
486	Electrocoagulation technology for high strength arsenic wastewater: Process optimization and mechanistic study	Gilhotra V., Das L., Sharma A., Kang T.S., Singh P., Dhuria R.S., Bhatti M.S.	Journal of Cleaner Production	2018	-	-	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
487	Graphene aerogel based room temperature chemiresistive detection of hydrogen peroxide: A key explosive ingredient	Kaur A., Kaur J., Singh R.C.	Sensors and Actuators, A: Physical	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India
488	Morpho-structural and opto-electrical properties of chemically tuned nanostructured TiO <sub>2</sub>	Kaur G., Negi P., Kaur M., Sharma R., Konwar R.J., Mahajan A.	Ceramics International	2018	-	-	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
489	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	Komal, Singh G., Singh G., Kang T.S.	ACS Omega	2018	-	-	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India
490	TDRM: Tensor-based data representation and mining for healthcare data in cloud computing environments	Sandhu R., Kaur N., Sood S.K., Buyya R.	Journal of Supercomputing	2018	-	-	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
491	Bisbenzimidazole based molecule as violet fluorescent material	Aulakh R.K., Mahajan A., Kumar S., Singh G.	AIP Conference Proceedings	2018	-	-	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
492	Nature and Hierarchy of Hydrogen-Bonding Interactions in Binary Complexes of Azoles with Water and Hydrogen Peroxide	Chopra N., Kaur D., Chopra G.	ACS Omega	2018	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India
493	Phytoremediation of Heavy Metals Using Cotton Plant: A Field Analysis	Kaur R., Bhatti S.S., Singh S., Singh J., Singh S.	Bulletin of Environmental Contamination and Toxicology	2018	-	-	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
494	Insights into the phenolic compounds present in jambolan (Syzygium cumini) along with their health-promoting effects	Singh B., Singh J.P., Kaur A., Singh N.	International Journal of Food Science and Technology	2018	-	-	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



495	Simulation and Analysis of Uniformity of Illuminance in Indoor VLC System	Priyanka, Singh M.L.	2018 6th Edition of International Conference on Wireless Networks and Embedded Systems, WECON 2018 - Proceedings	2018	-	-	Dept of Electronics Technology, Guru Nanak Dev University, Amritsar, India
496	Experimental Evaluation of Performance of Underwater Free Space Optical Link in the Presence of Air Bubbles	Singh M., Gill H.S., Singh M.L.	2018 6th Edition of International Conference on Wireless Networks and Embedded Systems, WECON 2018 - Proceedings	2018	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India
497	Synthesis and Characterization of LNT (Li <sub>2</sub> O- Nb <sub>2</sub> O <sub>5</sub> - TiO <sub>2</sub> ) Based Dielectric Ceramics	Singh R., Bahel S., Bindra S.	2018 6th Edition of International Conference on Wireless Networks and Embedded Systems, WECON 2018 - Proceedings	2018	-	-	Dept. of Electronics Technology, GNDU, Amritsar, India
498	An industrial study on developers' prevalent copy and paste activities	Bharti S., Singh H.	Proceedings - 2017 International Conference on Next Generation Computing and Information Systems, ICNGCIS 2017	2018	-	-	Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India
499	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	Saini S., Katnoria J.K., Kaur I.	Water Environment Research	2018	-	-	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
500	Comparison of Physico-Chemical Properties of Starch Isolated From Bran and Endosperm of Rice (Oryza sativa L.)	Singh T.P., Sogi D.S.	Starch/Staerke	2018	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143 005, India
501	Effect of Parboiling on Phenolic, Protein, and Pasting Properties of Rice from Different Paddy Varieties	Pal P., Singh N., Kaur P., Kaur A.	Journal of Food Science	2018	-	-	Dept. of Food Science and Technology, Guru Nanak Dev Univ., Amritsar, 143005, India
502	Comparative evaluation of NANO transport properties for DNA nucleobase based molecular junction devices	Vohra R., Sawhney R.S.	Journal of Molecular Modeling	2018	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India
503	$\beta$ -glucan from different Indian oat (Avena sativa) cultivars: Chemical, functional, structural, and rheological properties	Singh S., Kaur M., Sogi D.S.	Journal of Food Processing and Preservation	2018	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India
504	Exploration of insecticidal potential of an alpha glucosidase enzyme inhibitor from an endophytic Exophiala spinifera	Kaur J., Kaur R., Datta R., Kaur S., Kaur A.	Journal of Applied Microbiology	2018	-	-	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India
505	Genotoxic damage in end-stage renal disease	Gandhi G., Mehta T., Contractor P., Tung G.	Mutation Research - Genetic Toxicology and Environmental Mutagenesis	2018	-	-	Department of Human Genetics, Guru Nanak Dev University, Amritsar, 143 005, India
506	Li <sub>2</sub> O-Ta <sub>2</sub> O <sub>5</sub> -TiO <sub>2</sub> M-phase solid solutions as effective X-band shields	Kaur G., Pubby K., Bahel S., Bindra Narang S.	Ceramics International	2018	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India
507	Tunable Thermoelectric Performance in Porous Armchair Graphene Nanoribbons as a Function of Strain, Pore Morphology and Temperature	Kaur S., Narang S.B., Randhawa D.K.K.	Journal of Electronic Materials	2018	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Electronics and Communication Engineering, Guru Nanak Dev University, RC Jalandhar, Ladhevali, Punjab 144007, India
508	Internet of Things based activity surveillance of defence personnel	Bhatia M., Sood S.K.	Journal of Ambient Intelligence and Humanized Computing	2018	-	-	Guru Nanak Dev University, Regional Campus, Gurdaspur, India
509	SNA based QoS and reliability in fog and cloud framework	Sood S.K.	World Wide Web	2018	-	-	Department of Computer Science & Engineering, Guru Nanak Dev University Regional Campus Gurdaspur, Gurdaspur, India
510	Fog-cloud based cyber-physical system for distinguishing, detecting and preventing mosquito borne diseases	Sood S.K., Mahajan I.	Future Generation Computer Systems	2018	-	-	Department of Computer Science and Engineering, GNDU, Regional Campus, Gurdaspur, Punjab, India
511	Passive Optical Network Evolution to Next Generation Passive Optical Network: A Review	Kumari M., Sharma R., Sheetal A.	2018 6th Edition of International Conference on Wireless Networks and Embedded Systems, WECON 2018 - Proceedings	2018	-	-	Department of Electronics and Communication Engineering, Punjabi University, Patiala, India; Department of Electronics and Communication Engineering, GNDU Regional Campus, Gurdaspur, India





512	Predictive analytics of sensor data based on supervised machine learning algorithms	Gupta S., Mittal M., Padha A.	Proceedings - 2017 International Conference on Next Generation Computing and Information Systems, ICNGCIS 2017	2018	-	-	Department of CET, Guru Nanak Dev University, India; Department of CSE, MIET, Jammu, India
513	Comparison of different reflectance indices for vegetation analysis using Landsat-TM data	Kumar V., Sharma A., Bhardwaj R., Thukral A.K.	Remote Sensing Applications: Society and Environment	2018	-	-	Department of Botanical & Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botany, DAV University, Jalandhar, Punjab 144012, India
514	Fractionation and grain hardness effect on protein profiling, pasting and rheological properties of flours from medium- hard and extraordinarily soft wheat varieties	Katyal M., Virdi A.S., Singh N., Chopra N., Kaur A., Ahlawat A.K., Singh A.M.	Journal of Food Science and Technology	2018	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Division of Genetics, Indian Agricultural Research Institute, New Delhi, 110012, India
515	Microstructural (self-assembly) and optical based discrimination of Hg <sup>2+</sup> , CN <sup>-</sup> and Hg(CN) <sub>2</sub> ion-pair; Hg <sup>2+</sup> promoted-ESIPT assisted guanylation of thiourea	Singh H., Bhargava G., Kumar S., Singh P.	Sensors and Actuators, B: Chemical	2018	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Chemical Sciences, IK Gujral Punjab Technical University, Kapurthala, 144601, India
516	Environment Friendly Machining of Inconel 625 under Nano- Fluid Minimum Quantity Lubrication (NMQL)	Singh T., Dureja J.S., Dogra M., Bhatti M.S.	International Journal of Precision Engineering and Manufacturing	2018	-	-	Department of Mechanical Engineering, Punjab 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
517	Multivariate analysis on the distribution of elements in plants	Kumar V., Sharma A., Bakshi P., Bhardwaj R., Thukral A.K.	Acta Physiologiae Plantarum	2018	-	-	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
518	Thermoluminescence of Li <sub>2</sub> B <sub>4</sub> O <sub>7</sub> :Cu phosphor exposed to proton beam for dosimetric application	Chopra V., Dhoble S.J., Gupta K.K., Singh A., Pandey A.	Radiation Measurements	2018	-	-	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
519	Nickel; whether toxic or essential for plants and environment - A review	Shahzad B., Tanveer M., Rehman A., Cheema S.A., Fahad S., Rehman S., Sharma A.	Plant Physiology and Biochemistry	2018	-	-	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
520	Selenium ameliorates chromium toxicity through modifications in pigment system, antioxidative capacity, osmotic system, and metal chelators in Brassica juncea seedlings	Handa N., Kohli S.K., Sharma A., Thukral A.K., Bhardwaj R., Alyemeni M.N., Wijaya L., Ahmad P.	South African Journal of Botany	2018	-	-	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
521	Synthesis and Characterization of Rod Like Nano-sized Cobaltamine Complexes as Textile Dyeing Agents	Behal J., Kaur V., Mrzyglód J., Hoffmann M., Janiak A., Kaur K., Khunt R.	ChemistrySelect	2018	-	-	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



522	Assessment of revenue efficiency of Indian scheduled commercial banks	Bhatia A., Mahendru M.	International Journal of Law and Management	2018	-	-	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India; Department of Commerce, Khalsa College, Amritsar, India
523	Keto-Enol Tautomerism of Temperature and pH Sensitive Hydrated Curcumin Nanoparticles: Their Role as Nanoreactors and Compatibility with Blood Cells	Kaur R., Khullar P., Mahal A., Gupta A., Singh N., Ahluwalia G.K., Bakshi M.S.	Journal of Agricultural and Food Chemistry	2018	-	-	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
524	Effect of potassium chloride on the solvation behavior of caffeine, theophylline and theobromine: Volumetric, viscometric, calorimetry and spectroscopic approach	Beri A., Banipal P.K., Banipal T.S.	Food Chemistry	2018	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India
525	Effects of annealing on density, glass transition temperature and structure of tellurite, silicate and borate glasses	Kaur A., Khanna A., Kaur A., Hirdesh, González-Barriuso M., González F.	Journal of Non-Crystalline Solids	2018	-	-	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
526	Cobalt substituted nickel ferrites via Pechini's sol-gel citrate route: X-band electromagnetic characterization	Pabby K., Meena S.S., Yusuf S.M., Bindra Narang S.	Journal of Magnetism and Magnetic Materials	2018	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India; Solid State Physics Division, Bhabha Atomic Research Centre, Trombay, Mumbai, 400085, India
527	Temporal distribution, source apportionment, and pollution assessment of metals in the sediments of Beas river, India	Kumar V., Sharma A., Minakshi, Bhardwaj R., Thukral A.K.	Human and Ecological Risk Assessment	2018	-	-	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
528	Segmenting Generation Y using the Big Five personality traits: understanding differences in fashion consciousness, status consumption and materialism	Kaur H., Anand S.	Young Consumers	2018	-	-	Guru Nanak Dev University, Amritsar, India
529	A novel feedback system for pedagogy refinement in large lecture classrooms	Chavan P., Gupta S., Mitra R.	ICCE 2018 - 26th International Conference on Computers in Education, Main Conference Proceedings	2018	-	-	IDP in Educational Technology, Indian Institute of Technology, Bombay, India; Department of Computer Engineering and Technology, GNDU, Amritsar, India
530	Interval type-2 fuzzy Kalman filter aided individual channel estimation in MIMO relay systems	Kaur H., Khosla M., Sarin R.K.	International Journal of Communication Systems	2018	-	-	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
531	New product announcement: spokesperson a manifestation of increasing firm value	Mann B.J.S., Babbar S.	International Journal of Emerging Markets	2018	-	-	University Business School, Guru Nanak Dev University, Amritsar, India
532	Potential ecological risks of metal(loid)s in riverine floodplain soils	Bhatti S.S., Kumar V., Kumar A., Gouzos J., Kirby J., Singh J., Sambyal V., Nagpal A.K.	Ecotoxicology and Environmental Safety	2018	-	-	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
533	Social media buzz created by #nanotechnology: Insights from Twitter analytics	Singh P., Kahlon K.S., Sawhney R.S., Vohra R., Kaur S.	Nanotechnology Reviews	2018	-	-	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



534	Performance analysis of bulk arrival queue with balking, optional service, delayed repair and multi-phase repair	Singh C.J., Jain M., Kaur S.	Ain Shams Engineering Journal	2018	-	-	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
535	Naringin reveals ameliorative property over elevated oxidative stress levels in animal models	Singh Z., Kaur A., Sharma S.	Asian Journal of Pharmaceutical and Clinical Research	2018	-	-	Department of Zoology, Khalsa College, Amritsar, Punjab, India
536	Estimation of Natural Radionuclides and Exhalation Rate in Surface Soils of Four Districts of Haryana, India	Panghal A., Kumar A., Kumar S., Singh J., Singh P., Bajwa B.S.	Journal of the Geological Society of India	2018	-	-	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
537	Smart fluorescent supramolecular assemblies: Self-assembly in the presence of metal ions and anions in mixed aqueous media	Kataria M., Kumar M., Bhalla V.	Journal of the Indian Chemical Society	2018	-	-	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143 005, India
538	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	Dogra M., Singh K.J., Kaur K., Anand V.	Physics and Chemistry of Glasses: European Journal of Glass Science and Technology Part B	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar 143005, India
539	Effect of flipped classroom instructional strategy on self directed learning	Kaur A., Kauts A.	Indian Journal of Public Health Research and Development	2018	-	-	Department of Education, Guru Nanak Dev University, Amritsar, India; Faculty of Education, Guru Nanak Dev University, Amritsar, India
540	Impact of webquest on student engagement	Kaur S., Kauts A.	Indian Journal of Public Health Research and Development	2018	-	-	Department of Education, Amritsar Guru Nanak Dev University, Amritsar, India
541	Performance of Indian National Stock Exchange Indices: A comparative analysis	Singh J., Seth S.	Finance India	2018	-	-	Guru Nank Dev University, The Department of Commerce, Grand Trunk Road, Off. NH1, Amritsar, Punjab 143001, India
542	Assessment of antioxidative and ameliorative potential of aqueous extract of leaves of Thuja orientalis (Platyclusus Orientalis [L.]	Mehra S., Sharma S., Chadha P.	Asian Journal of Pharmaceutical and Clinical Research	2018	-	-	Department of Zoology, Cytogenetics Laboratory, Guru Nanak Dev University, Amritsar, Punjab 143 005, India
543	CEOs' Characteristics and Firm Performance: A Study of Indian Firms	Kaur R., Singh B.	Indian Journal of Corporate Governance	2018	-	-	University School of Financial Studies, Guru Nanak Dev University, Amritsar, Punjab, India; University School of Financial Studies, Guru Nanak Dev University, Amritsar, Punjab, India
544	Corporate Reputation: Do Board Characteristics Matter? Indian Evidence	Kaur A., Singh B.	Indian Journal of Corporate Governance	2018	-	-	Senior Research Fellow, Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India
545	Sorption technique as a tool for reduction of genotoxicity	Saini S., Kaur I., Katnoria J.K.	Toxicology and Industrial Health	2018	-	-	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
546	Physico-Chemical Studies on Binary Mixtures of 1,4-Dioxane and Alkan-1-ols at 298.15 K	Banipal P.K., Singh V., Kaur N., Sharma R., Thakur S., Kaur M., Banipal T.S.	Proceedings of the National Academy of Sciences India Section A - Physical Sciences	2018	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143 005, India
547	5 × 10 Gbps WDM-CAP-PON based on frequency comb using OFDM with blue LD	Sheetal A., Singh H.	Optical and Quantum Electronics	2018	-	-	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India
548	Temperature dependent photoluminescence from WS2 nanostructures	Sharma S., Bhagat S., Singh J., Ahmad M., Sharma S.	Journal of Materials Science: Materials in Electronics	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India
549	Structural, thermal and photoluminescent properties of Eu2O3-Li2O-TeO2 glasses	Hirdesh, Khanna A.	Journal of Luminescence	2018	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India
550	Gas-sensing properties of armchair silicene nanoribbons towards carbon-based gases with single-molecule resolution	Walia G.K., Randhawa D.K.K.	Structural Chemistry	2018	-	-	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, 144007, India
551	Probing the binding ability of vitamin B1 with bovine serum albumin: Calorimetric, light scattering, spectroscopic and volumetric studies	Kaur A., Sharma S., Banipal P.K., Banipal T.S.	Journal of Chemical Thermodynamics	2018	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India



552	Synergy of Physico-chemical and Biological Experiments for Developing a Cyclooxygenase-2 Inhibitor	Singh P., Kaur J., Kaur H., Kaur A., Bhatti R.	Scientific Reports	2018	-	-	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
553	Low-grade neuroinflammation due to chronic sleep deprivation results in anxiety and learning and memory impairments	Manchanda S., Singh H., Kaur T., Kaur G.	Molecular and Cellular Biochemistry	2018	-	-	Medical Biotechnology Laboratory, Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India
554	Change profile analysis of open-source software systems to understand their evolutionary behavior	Saini M., Chahal K.K.	Frontiers of Computer Science	2018	-	-	Department of Computer Science, Guru Nanak Dev University, Amritsar, 143005, India
555	Performance analysis of statistical and supervised learning techniques in stock data mining	Sharma M., Sharma S., Singh G.	Data	2018	-	-	Department of Computer Science and Applications, DAV University, Jalandhar, 144401, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, 143001, India
556	Microbial production of dicarboxylic acids from edible plants and milk using GC-MS	Kaur R., Kaur R., Sharma A., Kumar V., Sharma M., Bhardwaj R., Thukral A.K.	Journal of Analytical Science and Technology	2018	-	-	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Botany, DAV University, Sarnastpur, Jalandhar, Punjab 144012, India
557	Perceived social support and perceived stress, relations to adjustment among migrant students: A test of buffering hypothesis	Vats N., Kaur N.	Indian Journal of Public Health Research and Development	2018	-	-	School of Education, Lovely Professional University, Phagwara, India; Department of Education, Guru Nanak Dev University, Amritsar, India
558	Screening of CYP1B1 Arg368His as predominant mutation in North Indian primary open angle glaucoma and juvenile onset glaucoma patients	Kaur A., Vanita V., Singh J.	Molecular Biology Research Communications	2018	-	-	Department of Biotechnology, GGDSD College, Sector-32C, Chandigarh (UT), 160030, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, 143005, India
559	Physico-nutritional and sensory properties of cookies formulated with quinoa, sweet potato and wheat flour blends	Chopra N., Dhillon B., Rani R., Singh A.	Current Research in Nutrition and Food Science	2018	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; Department of Food Science and Technology, Punjab Agricultural University, Ludhiana, India
560	In vitro propagation, clonal fidelity and phytochemical analysis of Rhodiola imbricata Edgew: a rare trans-Himalayan medicinal plant	Bhardwaj A.K., Singh B., Kaur K., Roshan P., Sharma A., Dolker D., Naryal A., Saxena S., Pati P.K., Chaurasia O.P.	Plant Cell, Tissue and Organ Culture	2018	-	-	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
561	The effect of aliovalent Pb <sup>2+</sup> dopant on the magnetic and magneto dielectric properties of LaFeO <sub>3</sub> solid solutions	Kumar S., Pal J., Kaur S., Kaur R., Babu P.D., Singh M., Singh A.	Journal of Magnetism and Magnetic Materials	2018	-	-	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
562	What determines the tourist satisfaction? Evidence from Jammu and Kashmir - India	Aara R.R., Sofi A.A.	International Journal of Hospitality and Tourism Systems	2018	-	-	Punjab School of Economics, GNDU, Amritsar, Punjab, India; Department of Humanities and Social Sciences, IIT Madras, Chennai, Tamil Nadu, India
563	Schizophyllum commune induced genotoxic and cytotoxic effects in Spodoptera litura	Kaur M., Chadha P., Kaur S., Kaur A., Kaur R., Yadav A.K., Kaur R.	Scientific Reports	2018	-	-	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
564	Machining performance investigation of AISI 304 austenitic stainless steel under different turning environments	Singh T., Dureja J.S., Dogra M., Bhatti M.S.	International Journal of Automotive and Mechanical Engineering	2018	-	-	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
565	Obliquely Propagating Electron Acoustic Shock Waves in Magnetized Plasma	Bansal S., Aggarwal M., Gill T.S.	Brazilian Journal of Physics	2018	-	-	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



566	Nonplanar Electron - Acoustic Shock Waves with Superthermal Hot Electrons	Bansal S., Aggarwal M., Gill T.S.	Brazilian Journal of Physics	2018	-	-	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
567	IoT, big data and HPC based smart flood management framework	Sood S.K., Sandhu R., Singla K., Chang V.	Sustainable Computing: Informatics and Systems	2018	-	-	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus Gurdaspur Punjab, India; School of Computing and Information Systems, University of Melbourne, Melbourne, Australia; International Business School Suzhou, Xi'an Jiaotong-Liverpool University, Suzhou, China
568	Enhanced dielectric and optical properties of nanoscale barium hexaferrites for optoelectronics and high frequency application	Mohammed J., Suleiman A.B., Tchouank Tekou Carol T., Hafeez H.Y., Sharma J., Maji P.K., Kumar S.G., Srivastava A.K.	Chinese Physics B	2018	-	-	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, Amritsar, 143005, India
569	Optimization of Ni <sup>2+</sup> /Ni <sup>3+</sup> ratio in reduced graphene oxide/nickel oxide nanohybrids for platinum free dye sensitized solar cells	Singh R., Kumar S., Bedi R.K., Saxena V., Aswal D.K., Mahajan A.	Journal of Physics and Chemistry of Solids	2018	-	-	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
570	28-homobrassinolide regulates antioxidant enzyme activities and gene expression in response to salt- and temperature- induced oxidative stress in Brassica juncea	Kaur H., Sirhindi G., Bhardwaj R., Alyemeni M.N., Siddique K.H.M., Ahmad P.	Scientific Reports	2018	-	-	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
571	Exogenous application of calcium to 24-epibrassinosteroid pre-treated tomato seedlings mitigates NaCl toxicity by modifying ascorbate-glutathione cycle and secondary metabolites	Ahmad P., Abd Allah E.F., Alyemeni M.N., Wijaya L., Alam P., Bhardwaj R., Siddique K.H.M.	Scientific Reports	2018	-	-	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
572	Applications of rice protein in nanomaterials synthesis, nanocolloids of rice protein, and bioapplicability	Mandial D., Khullar P., Mahal A., Kumar H., Singh N., Ahluwalia G.K., Bakshi M.S.	International Journal of Biological Macromolecules	2018	-	-	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



573	Anti-inflammatory effect of methanolic extract of Gmelina arborea bark and its fractions against carrageenan induced paw oedema in rats	Kaur S., Bedi P.M.S., Kaur N.	Natural Product Research	2018	-	-	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India
574	Selective and reversible recognition of Hg <sup>2+</sup> ions by Tetrathia[22]porphyrin(2.1.2.1)	Virk T.S., Kaur P., Singh K.	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2018	-	-	Department of Chemistry, UGC-Centre of Advanced Study-II, Guru Nanak Dev University, Amritsar, 143005, India
575	Satisfaction, trust and loyalty: investigating the mediating effects of commitment, switching costs and corporate image	Kaur H., Soch H.	Journal of Asia Business Studies	2018	-	-	Department of Commerce, Guru Nanak Dev University, Amritsar, India; Department of Management, I.K. Gujral Punjab Technical University Kapurthala, Kapurthala, Punjab, India
576	Jasmonic acid induced changes in physio-biochemical attributes and ascorbate-glutathione pathway in Lycopersicon esculentum under lead stress at different growth stages	Bali S., Kaur P., Kohli S.K., Ohri P., Thukral A.K., Bhardwaj R., Wijaya L., Alyemeni M.N., Ahmad P.	Science of the Total Environment	2018	-	-	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
577	Hydrophobically Driven Morphologically Diverse Self-Assembled Architectures of Deoxycholate and Imidazolium- Based Biamphiphilic Ionic Liquids in Aqueous Medium	Singh G., Komal K., Singh M., Singh O., Kang T.S.	Journal of Physical Chemistry B	2018	-	-	Department of Chemistry, UGC-Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India
578	Dicarboxamide polymorph derivatives for trace-level electrochemical sensing of Cu(II) supported with crystal structure and theoretical studies	Rana L.K., Sharma R., Ahmed B., Kaur D., Kumar S., Hundal G., Mittal S.K.	Analytical Methods	2018	-	-	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
579	Cognitive reasoning processes and identity achievement: Mediating role of identity processing styles	Kaur M., Tung S.	Pakistan Journal of Psychological Research	2019	-	-	Khalsa College of Education, Amritsar, Punjab, India; Department of Psychology, Guru Nanak Dev University Amritsar, Punjab, India
580	HMM-Based Secure Framework for Optical Fog Devices in the Optical Fog/Cloud Network	Sood S.K., Deep Singh K.	Journal of Optical Communications	2019	-	-	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
581	Transition metal catalyzed [6 + 2] cycloadditions	Anand A., Singh P., Kumar V., Bhargava G.	RSC Advances	2019	-	-	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
582	Effect of pruning intensity and time on yield and quality of guava cv. L-49	Singh H.R., Kaur A.	Research on Crops	2019	-	-	Department of Horticulture, Khalsa College, Amritsar, Punjab 143 001, India
583	Occurrence of human urogenital myiasis due to neglected personal hygiene: A review	Singh A., Kaur J.	Transactions of the Royal Society of Tropical Medicine and Hygiene	2019	-	-	Post Graduate Department of Zoology, Khalsa College Amritsar Punjab, India
584	Nano-based drug delivery system: Recent strategies for the treatment of ocular disease and future perspective	Qamar Z., Qizilbash F.F., Iqbal M.K., Ali A., Narang J.K., Ali J., Baboota S.	Recent Patents on Drug Delivery and Formulation	2019	-	-	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
585	Exploring the role of dimethylarginine dimethylaminohydrolasemediated reduction in tissue asymmetrical dimethylarginine levels in cardio-protective mechanism of ischaemic postconditioning in rats	Kaur K., Singh N., Dhawan R.K.	Iranian Journal of Basic Medical Sciences	2019	-	-	Department of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala, India; Department of Pharmacology, Khalsa College of Pharmacy, Amritsar, India
586	Using a digital storage oscilloscope to visualise the induced EMF of a magnet passing through a solenoid	Singh I., Kaur B.	Physics Education	2019	-	-	P.G. Department of Physics, Khalsa College, Amritsar, 143001, India; School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India



587	A survey of efficient trust management schemes in mobile ad-hoc network: Reliable trust management framework of MANET	Kaur J., Kaur S.	International Journal of Business Data Communications and Networking	2019	-	-	Khalsa College of Engineering and Technology, Amritsar, India; PURCITMPunjab, India
588	Traumatic myiasis of the scalp in a 3-year-old patient- a case of neglected health care	Singh A., Singh D.	Malaysian Journal of Medicine and Health Sciences	2019	-	-	Department of Zoology, Khalsa College, Amritsar, Punjab 143001-, India; Department of Zoology and Environment Sciences, Punjabi University, Patiala, Punjab 147002, India
589	Visualizing the trajectory of a charged particle in electric and magnetic fields using an Excel spreadsheet	Singh I., Khun K.K., Kaur B.	Physics Education	2019	-	-	P.G. Department of Physics, Khalsa College, Amritsar, 143001, India; School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India
590	Electron beam evaporated tin oxide thin films for thermistor applications	Sohal M.K., Singh R.C., Mahajan A.	Materials Today: Proceedings	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
591	Substrate induced effects on structural, optical and electrical properties of lead (II)tetrakis (4-cumylphenoxy) phthalocyanine thin films	Kaur N., Mahajan A., Singh D.P.	Materials Today: Proceedings	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
592	EIT-based giant self-kerr-nonlinear behavior of multilevel X-scheme	Kaur A., Dar Z.I., Kaur S., Kaur P.	Materials Today: Proceedings	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
593	Evaluation of antinociceptive effect of seed extracts of Eugenia jambolana Linn	Singh H., Sharma A., Bhardwaj A., Kaur B., Badial K., Kaur S., Singh B.	Plant Archives	2019	-	-	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India
94	Output, employment and productivity: Contribution of different technology intensive manufacturing industries of India	Kaur K., Mehta S.	International Journal of Economic Policy in Emerging Economies	2019	-	-	Punjab School of Economics, Guru Nanak Dev University, Amritsar, India
595	Human protein function prediction enhancement using decision tree based machine learning approach	Sharma S., Singh G., Singh R.	Communications in Computer and Information Science	2019	-	-	Hindu College, Guru Nanak Dev University, Amritsar, India; Guru Nanak Dev University, Amritsar, India
596	On chebyshev centers in metric spaces	Narang T.D.	Publications de l'Institut Mathematique	2019	-	-	Department of Mathematics, Guru Nanak Dev University, Amritsar, India
597	Physicochemical and spectral evaluation of the interactional behavior of nicotinic acid (vitamin B3) with mixed [sodium deoxycholate (bile salt) + cetyltrimethylammonium bromide] surfactants	Banipal P.K., Sohal P., Banipal T.S.	Journal of Dispersion Science and Technology	2019	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, India
598	Formulation of sustained-release microspheres of cefixime with enhanced oral bioavailability and antibacterial potential	Razdan K., Sahajpal N.S., Singh K., Singh H., Singh H., Jain S.K.	Therapeutic Delivery	2019	-	-	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
599	IoT and cloud computing based automatic epileptic seizure detection using HOS features based random forest classification	Singh K., Malhotra J.	Journal of Ambient Intelligence and Humanized Computing	2019	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; Department of ECE, Guru Nanak Dev University Regional Campus, Jalandhar, India
600	Dust-acoustic cnoidal waves in a magnetized quantum dusty plasma	Sethi P., Saini N.S.	Waves in Random and Complex Media	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, India
601	Failure prediction, lead time estimation and health degree assessment for hard disk drives using voting based decision trees	Kaur K., Kaur K.	Computers, Materials and Continua	2019	-	-	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
602	An Efficient Architectural Framework for Non-obtrusive and Instantaneous Real-Time Identification of Clones During the Software Development Process in IDE	Bharti S., Singh H.	Communications in Computer and Information Science	2019	-	-	Department of Computer Science, Guru Nanak Dev University, Amritsar, India
603	Rank Based Multi Path Job Execution Sequencing for Multi Cluster Environment to Find Shortest Path	Kaur J., Kumar A., Dhirgna D.S.	Communications in Computer and Information Science	2019	-	-	CSE Department, GNDU, Amritsar, India
604	Can Tweets Predict Election Results? Insights from Twitter Analytics	Singh P., Kumar K., Kahlon K.S., Sawhney R.S.	Communications in Computer and Information Science	2019	-	-	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



605	Role of Perseverance and Persistence for Retaining and Stimulating MOOC Learners	Kaur P.D., Malhotra J., Arora M.	Communications in Computer and Information Science	2019	-	-	Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus, Jalandhar, India
606	Formulation and evaluation of ferrous ascorbate floating tablets for the treatment of anaemia	Singh K., Jain S.K., Razdan K., Singh H., Sahajpal N.S., Singh H., Singh A., Thakur S.	Drug Delivery Letters	2019	-	-	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India
607	UV light promoted 'Metal'/Additive-free oxidation of alcohols: Investigating the role of alcohols as electron donors	Walia P.K., Sharma M., Kumar M., Bhalla V.	RSC Advances	2019	-	-	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar Punjab, 143005, India
608	Suitability of FBG for Gain Flatness of $64 \times 10$ Gbps DWDM System Using Hybrid (EDFA+YDFA) Optical Amplifier in C + L Band up to 50 GHz (0.4 nm) Channel Spacing	Singh H., Sheetal A.	Journal of Optical Communications	2019	-	-	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
609	Improved Performance Investigation of 10 Gb/s-10 GHz 4-QAM Based OFDM-Ro-FSO Transmission Link	Grover A., Sheetal A.	Journal of Optical Communications	2019	-	-	Guru Nanak Dev University, Regional Campus, Gurdaspur, India
610	Performance Analysis of 20 Gbit/s-40 GHz MDM-Ro-FSO Link Incorporating DPSK Modulation Scheme	Grover A., Sheetal A.	Journal of Optical Communications	2019	-	-	Guru Nanak Dev University, Regional Campus, Gurdaspur, India
611	Organocatalytic enantioselective conjugate addition of pyrazolin-5-ones to arylomethylidene malonates	Sharma A., Sharma V., Chimni S.S.	Organic and Biomolecular Chemistry	2019	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
612	Announcement of an appointment of an outside as CEO: A study of stock market reaction	Mehndiratta D., Kang L.S.	Journal of Advanced Research in Dynamical and Control Systems	2019	-	-	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India
613	Responses of plants to pesticide toxicity: An overview [Respostas de plantas à toxicidade de pesticidas: Uma visão geral]	Sharma A., Kumar V., Thukral A.K., Bhardwaj R.	Planta Daninha	2019	-	-	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India
614	Biomimetic heterobimetallic architecture of Ni(II) and Fe(II) for CO <sub>2</sub> hydrogenation in aqueous media. A DFT study	Shiekh B.A.	RSC Advances	2019	-	-	Department of Chemistry, UGC Sponsored Centre of Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India
615	Bio-mimetic self-assembled computationally designed catalysts of Mo and W for hydrogenation of CO <sub>2</sub> /dehydrogenation of HCOOH inspired by the active site of formate dehydrogenase	Shiekh B.A., Kaur D., Kumar S.	Physical Chemistry Chemical Physics	2019	-	-	Department of Chemistry, UGC Sponsored Centre of Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India
616	Recent advances in the application of BODIPY in bioimaging and chemosensing	Kaur P., Singh K.	Journal of Materials Chemistry C	2019	-	-	Department of Chemistry, UGC Centre of Advanced Study, Guru Nanak Dev University, Amritsar, 143 005, India
617	Immunopathology of recurrent vulvovaginal infections: New aspects and research directions	Kalia N., Singh J., Kaur M.	Frontiers in Immunology	2019	-	-	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India
618	$2 \times 10$ Gbit/s-10 GHz Radio over Free Space Optics Transmission System Incorporating Mode Division Multiplexing of Hermite Gaussian Modes	Singh M., Malhotra J.	Journal of Optical Communications	2019	-	-	Electronics and Communication Engineering Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India
619	Ultrastructural changes in fin epithelium of Channa punctatus (Bloch) exposed to mercuric chloride: sem study	Maheshwari S., Dua A.	Journal of Toxicology and Environmental Health - Part A: Current Issues	2019	-	-	Aquatic Biology Laboratory, Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India
620	Hardiness as a moderator in the relationship between emotional autonomy and depression among adolescents	Dhillon R., Mehra N.	Pakistan Journal of Psychological Research	2019	-	-	Department of Psychology, Guru Nanak Dev University, Amritsar, India
621	Modulation of biochemical and physiological parameters in Hordeum vulgare L. Seedlings under the influence of benzyl-butyl phthalate	Kumari A., Kaur R.	PeerJ	2019	-	-	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India
622	Scientific validation of the antimicrobial and antiproliferative potential of Clerodendrum serratum (L.) Moon, its phytoconstituents and their biosafety by acute oral toxicity study	Mahajan H., Singh Arora D., Singh H., Jain S.K., Namarta K., Singh J.	Drug and Chemical Toxicology	2019	-	-	Microbial Technology Laboratory, Department of Microbiology, Guru Nanak Dev University, Amritsar, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, India





623	An innovative approach towards failure prediction of hard disk drives using machine learning	Kaur K., Kaur K.	Journal of Advanced Research in Dynamical and Control Systems	2019	-	-	Dept. of Computer Engg. & Technology, Guru Nanak Dev University, Amritsar, India; Dept. of Computer Science, Guru Nanak Dev University, Amritsar, India
624	DRAODM: Diabetic Retinopathy Analysis Through Optimized Deep Learning with Multi Support Vector Machine for Classification	Bhatti E., Kaur P.	Communications in Computer and Information Science	2019	-	-	Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India
625	Dynamics between bank-led financial inclusion and economic growth in emerging economies: The case of India	Nanda K.	International Journal of Development and Conflict	2019	-	-	Punjab School of Economics, Guru Nanak Dev University, Amritsar, Punjab, India
626	Influence of samarium and iron substitution on structural and electrical properties of barium zirconate titanate solid solutions	Kaur R., Singh M., Singh A.	Journal of Asian Ceramic Societies	2019	-	-	Multifunctional Materials Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, India
627	Visible light promoted PANI@Au:CuO catalyzed sequential amination, azidation and annulation for the preparation of 2-arylbenzimidazoles	Chopra R., Kumar M., Neelam, Bhalla V.	Green Chemistry	2019	-	-	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar Punjab, 143005, India
628	Quantitative Analysis of Software Component's Reusability	Ratti N., Kaur P.	Smart Innovation, Systems and Technologies	2019	-	-	Guru Nanak Dev University, Amritsar, India
629	Best coapproximation in quotient spaces	Gupta S.	Iranian Journal of Mathematical Sciences and Informatics	2019	-	-	Department of Mathematics, Guru Nanak Dev University, Amritsar, India
630	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?	Shiekh B.A., Kaur D.	RSC Advances	2019	-	-	Department of Chemistry, UGC Sponsored Centre of Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India
631	Magnetoacoustic Nonlinear Solitary and Freak Waves in Pair- Ion Plasma	Sethi P., Singh K., Saini N.S.	Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
632	Reinforcement learning-based real time search algorithm for routing optimisation in wireless sensor networks using fuzzy link cost estimation	Singh K., Malhotra J.	International Journal of Communication Networks and Distributed Systems	2019	-	-	Department of ECE, Guru Nanak Dev University Regional Campus, Sultanpur Lodhi, Jalandhar, Punjab, India
633	Exploiting Parallelism Available in Loops Using Abstract Syntax Tree	Kumar A., Singh H.	Advances in Intelligent Systems and Computing	2019	-	-	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, 143005, India
634	Evaluation and Classification of Road Accidents Using Machine Learning Techniques	Singh J., Singh G., Singh P., Kaur M.	Advances in Intelligent Systems and Computing	2019	-	-	Department of CS, GNDU, Amritsar, Punjab 143005, India; Department of CS, Faculty of Engineering and Tech, GNDU, Amritsar, Punjab 143005, India
635	An improved exponential type estimator of population mean of sensitive variable using optional randomized response technique	Grover L.K., Kaur A.	Pakistan Journal of Statistics and Operation Research	2019	-	-	Department of Mathematics, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Mathematics, Guru Nanak Dev University, Amritsar, Punjab, India
636	Utilization of flour from rice broken in wheat flour chapatti: evaluation of dough rheology, starch digestibility, glycemic index and retrogradation behavior	Gujral H.S., Sharma B., Singh P.	Journal of Food Science and Technology	2019	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India
637	Relationship of Mixolab characteristics with protein, pasting, dynamic and empirical rheological characteristics of flours from Indian wheat varieties with diverse grain hardness	Singh N., Gujral H.S., Katyal M., Sharma B.	Journal of Food Science and Technology	2019	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India
638	Metal nanoparticles embedded in AIEE active supramolecular assemblies: Robust, green and reusable nanocatalysts	Deol H., Singh G., Kumar M., Bhalla V.	Dalton Transactions	2019	-	-	Department of Chemistry, UGC Sponsored Centre for Advance Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
639	A secure multi-factor ECC based authentication scheme for Cloud-IoT based healthcare services	Dhillon P.K., Kalra S.	Journal of Ambient Intelligence and Smart Environments	2019	-	-	Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus, Ladhewali, Jalandhar, Punjab, India



640	Does Firm's Size Speak of Its Reputation? Indian Evidence	Kaur A., Singh B.	Global Business Review	2019	-	-	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India
641	A new sustainable approach towards preparation of sunlight active Ag/AgBr Janus nanoparticles using non-toxic surface active ionic liquid	Singh G., Komal, Singh G., Kaur M., Kang T.S.	Journal of Materials Chemistry A	2019	-	-	Department of Chemistry, University Grants Commission (UGC), Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
642	Measuring Celebrity Equity: Unearthing the Consumer Knowledge Structure Associations	Ghuman M.K., Parmar Y., Mann B.J.S.	Global Business Review	2019	-	-	Assistant Professor, University Business School, Guru Nanak Dev University, Amritsar, Punjab, India; Research Scholar, University Business School, Guru Nanak Dev University, Amritsar, Punjab, India; University Business School, Guru Nanak Dev University, Amritsar, Punjab, India
643	Cloud security and forensic awareness survey: An empirical analysis	Bhatia S., Malhotra J.	Journal of Engineering and Applied Sciences	2019	-	-	Department of Computer Science, Guru Nanak Dev University, Amritsar, 143005, India; Department of Computer Science and Engineering GNDU Regional Campus, Jalandhar, 144007, India
644	Cost Efficient 4x 2.5 Gb/s Transparent WDM Ring Network using DML and MetroCor Fiber for Long Reach Applications	Sheetal A., Singh H.	Journal of Optical Communications	2019	-	-	Department of Electronics and Communication Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India
645	Failure prediction and health status assessment of storage systems with decision trees	Kaur K., Kaur K.	Communications in Computer and Information Science	2019	-	-	Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India
646	Investigating developers' sentiments associated with software cloning practices	Bharti S., Singh H.	Communications in Computer and Information Science	2019	-	-	Department of Computer Science, Guru Nanak Dev University, Amritsar, India
647	Impact of neighboring agent's characteristics with Q-learning in network multi-agent system	Kaur H., Devi G.	Communications in Computer and Information Science	2019	-	-	Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus, Gurdaspur, Punjab 143521, India
648	Fault Aware Improved Clustering Algorithm to Improve Execution Time of the Cloudlets	Kaur J., Kaur K.	Communications in Computer and Information Science	2019	-	-	Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India
649	Mefenamic acid-loaded solid SMEDDS: An innovative aspect for dose reduction and improved pharmacodynamic profile	Kumar M., Singh D., Bedi N.	Therapeutic Delivery	2019	-	-	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
650	Targeting tyrosine kinase: Development of acridone – pyrrole – oxindole hybrids against human breast cancer	Kaur M., Singh P.	Bioorganic and Medicinal Chemistry Letters	2019	-	-	Department of Chemistry, UGC Sponsored Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India
651	Synthesis, Characterization, and Evaluation of Surface and Thermal Properties and Cytotoxicity of 2-Hydroxy-3-Phenoxypropyl Imidazolium Bola-Type Gemini Amphiphiles	Aggarwal R., Singh S., Saini V., Kaur G.	Journal of Surfactants and Detergents	2019	-	-	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
652	An enhanced post-migration algorithm for dynamic load balancing in cloud computing environment	Bhandari A., Kaur K.	Advances in Intelligent Systems and Computing	2019	-	-	Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India
653	Sanction enforcement for norm violation in multi-agent systems: a case study	Kaur H., Sharma A.	Advances in Intelligent Systems and Computing	2019	-	-	Department of Computer Science & Engineering, Guru Nanak Dev University Regional Campus, Gurdaspur, Punjab 143521, India
654	Statistical optimization of enzymatic hydrolysis of rice bran protein concentrate for enhanced hydrolysate production by papain	Singh T.P., Siddiqi R.A., Sogi D.S.	LWT	2019	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143 005, India
655	Hybrid metaheuristic based scheduling with job duplication for cloud data centers	Singh R.	Advances in Intelligent Systems and Computing	2019	-	-	Guru Nanak Dev University, Amritsar, Punjab, India
656	A comprehensive framework for student stress monitoring in fog-cloud IoT environment: m-health perspective	Verma P., Sood S.K.	Medical and Biological Engineering and Computing	2019	-	-	Computer Science and Engineering, Guru Nanak Dev University, Amritsar, 143521, India
657	A context-aware recommender engine for smart kitchen	Pratibha, Kaur P.D.	Advances in Intelligent Systems and Computing	2019	-	-	GNDU Regional Campus, Jalandhar, India



658	When things become friends: A semantic perspective on the social Internet of Things	Gulati N., Kaur P.D.	Advances in Intelligent Systems and Computing	2019	-	-	Department of CSE, GNDU Regional Campus, Jalandhar, India
659	Software architecture evaluation in Agile environment	Ahuja C., Kaur P., Singh H.	Advances in Intelligent Systems and Computing	2019	-	-	Department of Computer Science and Engineering, Guru Nanak Dev University, Amritsar, Punjab 143005, India
660	Nanoformulations for ocular delivery of drugs - A patent perspective	Dogra A., Kaur K., Ali J., Baboota S., Narang R.S., Narang J.K.	Recent Patents on Drug Delivery and Formulation	2019	-	-	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
661	Applications of information measures to the theory of coding	Handa R., Narula R.K., Gandhi C.P.	International Journal on Emerging Technologies	2019	-	-	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
662	New entropic modeling for discrete probability distributions	Handa R., Narula R.K., Gandhi C.P.	International Journal on Emerging Technologies	2019	-	-	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
663	Surface active magnetic iron oxide nanoparticles for extracting metal nanoparticles across an aqueous-organic interface	Verma M., Singh K., Bakshi M.S.	Journal of Materials Chemistry C	2019	-	-	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
664	Socio-economic variables and quality of work life: Public transportation bus drivers	Arora S., Randhawa G.	SCMS Journal of Indian Management	2019	-	-	Guru Gobind Singh Khalsa College, Sarhali Tarn Taran, Punjab, India; University Business School, Guru Nanak Dev University, Amritsar, India
665	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	Kumar K., Kumar S., Singh P., Kaur S., Kaur S., Bhargava G.	Journal of Materials Chemistry B	2019	-	-	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
666	Sustainable preparation of sunlight active $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> nanoparticles using iron containing ionic liquids for photocatalytic applications	Komal, Kaur H., Kainth M., Meena S.S., Kang T.S.	RSC Advances	2019	-	-	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
667	Aggregation tailored emission of a benzothiazole based derivative: Photostable turn on bioimaging	Kaur I., Sharma V., Mobin S.M., Khajuria A., Ohri P., Kaur P., Singh K.	RSC Advances	2019	-	-	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



668	Self-microemulsifying drug delivery system for problematic molecules: An update	Singh D., Tiwary A.K., Bedi N.	Recent Patents on Nanotechnology	2019	-	-	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
669	Risk factor analysis of breast cancer in premenopausal and postmenopausal women of Punjab, India	Kour A., Sharma S., Sambyal V., Guleria K., Singh N.R., Uppal M.S., Manjari M., Sudan M., Kukreja S.	Asian Pacific Journal of Cancer Prevention	2019	-	-	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
670	Perylene diimide-Cu <sup>2+</sup> 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	Kumar K., Kaur S., Kaur S., Bhargava G., Kumar S., Singh P.	Journal of Materials Chemistry B	2019	-	-	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
671	A study to access factors affecting agribusiness in diversified utilization of potato crop in state of Punjab and Himachal Pradesh	Singh P., Farhan M., Saajan S., Singh P.	Plant Archives	2019	-	-	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
672	Luliconazole vesicular based gel formulations for its enhanced topical delivery	Kaur M., Singh K., Jain S.K.	Journal of Liposome Research	2019	-	-	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Microbiology, Government Medical College, Amritsar, Punjab, India
673	Polymeric precipitation inhibitor as an effective trigger to convert supersaturated into supersaturable state in vivo	Singh D., Singh M., Tharmatt A., Tiwary A.K., Bedi N.	Therapeutic Delivery	2019	-	-	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
674	Appraisal of metallic pollution and ecological risks in agricultural soils of Alborz province, Iran, employing contamination indices and multivariate statistical analyses	Heidari A., Kumar V., Keshavarzi A.	International Journal of Environmental Health Research	2019	-	-	Department of Soil Science, University of Tehran, Karaj, Iran; Guru Nanak Dev University, Amritsar, India
675	Supplementary variable technique (SVT) for non-Markovian single server queue with service interruption (QSI)	Jain M., Kaur S., Singh P.	Operational Research	2019	-	-	Department of Mathematics, Indian Institute of Technology Roorkee, Roorkee, 247667, India; Department of Mathematics, Guru Nanak Dev University, Amritsar, 143005, India
676	Differentiation strategy in private banking services in India: Identifying role of tangible factors & traits affecting service levels	Arora A., Misra S.K., Verma R.	International Journal on Emerging Technologies	2019	-	-	Guru Nanak Dev University College, Jalandhar, Punjab, India; Center of Continuing Education, Dr. B R Ambedkar National Institute of Technology, Jalandhar, Punjab, India
677	Modelling the effect of knowledge management performance on organisational effectiveness: A study of e-governance in India	Bhardwaj R., Singh H.	Electronic Government	2019	-	-	PG Department of Computer Science and IT, DAV College, Amritsar, Punjab, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India
678	Temperature dependent electrical transport characteristics of polyaniline films modified with gold nanoparticles	Thakur S., Kaur P., Devgan K., Singh L.	Materials Today: Proceedings	2019	-	-	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
679	Digital Payment Adoption in India: Insights from Twitter Analytics	Singh P., Dwivedi Y.K., Kahlon K.S., Rana N.P., Patil P.P., Sawhney R.S.	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	2019	-	-	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



680	Enzymatic degradation of biofilm by metalloprotease from microbacterium sp. Sks10	Saggu S.K., Jha G., Mishra P.C.	Frontiers in Bioengineering and Biotechnology	2019	-	-	Department of Biotechnology, Guru Nanak Dev University, Amritsar, India; Plant Microbe Interactions Laboratory, National Institute of Plant Genome Research, New Delhi, India
681	Synthesis and characterization of Zn <sup>2+</sup> -Zr <sup>4+</sup> substituted barium hexaferrite by sol gel auto combustion method	Godara S.K., Singh H., Malhi P.S., Kaur V., Narang S.B., Sood A.K., Bhadu G.R., Chaudhari J.C.	Materials Today: Proceedings	2019	-	-	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
682	Memory and pedagogy of Gurbānī Saṅgita: An autoethnographic Udāsī*	Singh B.B.	Sikh Formations: Religion, Culture, Theory	2019	-	-	The Anād Foundation, New Delhi, India; Faculty of Humanities & Religious Studies, Guru Nanak Dev University, Amritsar, India
683	Tailored therapeutics based on 1,2,3-1: H -triazoles: A mini review	Prasher P., Sharma M.	MedChemComm	2019	-	-	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
684	Comparative Analysis of High Speed 20/20 Gbps OTDM-PON, WDM-PON and TWDM-PON for Long-Reach NG-PON2	Kumari M., Sharma R., Sheetal A.	Journal of Optical Communications	2019	-	-	Punjabi University, Patiala, 147002, India; Guru Nanak Dev University Regional Campus, Gurdaspur, 143521, India
685	Determinants of Diffusion and Adoption of ATM cum Debit Cards in Indian Banking Sector	Kaur K., Kaur M.	Global Business Review	2019	-	-	Department of Commerce, PG Government College (Hisar) District -Hissar, Haryana, India; Department of Commerce, Guru Nanak Dev University, Amritsar, Punjab, India
686	Analysis of bulk queue with additional optional service, vacation and unreliable server	Singh C.J., Kaur S., Jain M.	International Journal of Mathematics in Operational Research	2019	-	-	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
687	Design of GA and ontology based NLP frameworks for online opinion mining	Sharma M., Singh G., Singh R.	Recent Patents on Engineering	2019	-	-	Department of Computer Science and Applications, DAV University, Jalandhar, India; Department of Computer Science, GNDU, Amritsar, India
688	Influence of defect structure on colour tunability and magneto optical behaviour of WO <sub>3</sub> nanoforms	Kriti K., Kaur P., Kaur S., Arora D., Asokan K., Singh D.P.	RSC Advances	2019	-	-	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
689	Multi-targeting anticancer agents: Rational approaches, synthetic routes and structure activity relationship	Singh H., Kinarivala N., Sharma S.	Anti-Cancer Agents in Medicinal Chemistry	2019	-	-	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab- 143005, India; Sloan Kettering Institute, New York, NY 10065, United States
690	Defluoridation of water using micelle templated MCM-41: Adsorption and RSM studies	Kaur I., Gupta A., Singh B.P., Kumar R., Chawla J.	Journal of Water Supply: Research and Technology - AQUA	2019	-	-	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
691	Energy efficient e-healthcare framework using HWPSO-based clustering approach	Majumdar A., Laskar N.M., Biswas A., Sood S.K., Baishnab K.L.	Journal of Intelligent and Fuzzy Systems	2019	-	-	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
692	Liquid crystalline microspheres of azobenzene amphiphiles formed by thermally induced pH changes in binary water- hydrolytic ionic liquid media	Kang T.S., Morikawa M.-A., Kimizuka N.	Chemical Communications	2019	-	-	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



693	Comparison of UV spectrophotometric and HPLC method for estimating canagliflozin in bulk and a tablet dosage form	Singh D., Bedi N., Tiwary A.K.	Indian Journal of Pharmaceutical Sciences	2019	-	-	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
694	Role of porous carriers in the biopharmaceutical performance of solid SMEDDS of canagliflozin	Singh D., Tiwary A.K., Bedi N.	Recent Patents on Drug Delivery and Formulation	2019	-	-	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
695	Benzoflavone derivatives as potent antihyperuricemic agents	Singh J.V., Mal G., Kaur G., Gupta M.K., Singh A., Nepali K., Singh H., Sharma S., Bedi S.P.M.	MedChemComm	2019	-	-	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
696	Intelligent monitoring and controlling of public policies using social media and cloud computing	Singh P., Dwivedi Y.K., Kahlon K.S., Sawhney R.S.	IFIP Advances in Information and Communication Technology	2019	-	-	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
697	SNPs in 3'-UTR region of MBL2 increases susceptibility to recurrent vulvovaginal infections by altering sMBL levels	Kalia N., Singh J., Sharma S., Kaur M.	Immunobiology	2019	-	-	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
698	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	Singh K., Kaur P., Devra S., Kaur G.	Optik	2019	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; Department of Electrical and Instrumentation Engineering, Thapar University, Patiala, India
699	Improved mutation-based particle swarm optimization for load balancing in cloud data centers	Sethi N., Singh S., Singh G.	Advances in Intelligent Systems and Computing	2019	-	-	IKG Punjab Technical University, Jalandhar, Punjab, India; Guru Nanak Dev University, Amritsar, Punjab, India
700	Effects of oblique angle deposition on structural, electrical and wettability properties of Bi thin films grown by thermal evaporation	Jain R.K., Kaur J., Arora S., Kumar A., Chawla A.K., Khanna A.	Applied Surface Science	2019	-	-	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
701	A comparative analysis of static and dynamic java bytecode watermarking algorithms	Kumar K., Kaur P.	Advances in Intelligent Systems and Computing	2019	-	-	Faculty of Science and Technology, ICFAI University, Baddi, HP, India; Department of Computer Science and Technology, Guru Nanak Dev University, Amritsar, India
702	Pharmacognostic characterization of Myrica esculenta leaves	Kabra A., Sharma R., Singla S., Kabra R., Baghel U.S.	Journal of Ayurveda and Integrative Medicine	2019	-	-	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
703	Correlation between lattice deformations and optical properties of Ni doped ZnO at dilute concentration	Kaur P., Rahul, Kaur S., Kriti, Arora D., Asokan K., Paul Singh D.	Materials Today: Proceedings	2019	-	-	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
704	2-layer and 3-layer fiber geometry model based analysis of refractive index sensitivity of long period fiber grating with reduced cladding	Prashar S., Singh S., Engles D., Kaushik S.	Journal of Optoelectronics and Advanced Materials	2019	-	-	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



705	Effects of plasma electron temperature and magnetic field on the propagation dynamics of Gaussian laser beam in weakly relativistic cold quantum plasma	Aggarwal M., Goyal V., Kashyap R., Kumar H., Gill T.S.	Laser and Particle Beams	2019	-	-	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
706	Structure elaboration of isoniazid: synthesis, in silico molecular docking and antimycobacterial activity of isoniazid-pyrimidine conjugates	Kaur H., Singh L., Chibale K., Singh K.	Molecular Diversity	2019	-	-	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
707	Enhanced Performance Analysis of 10 Gbit/s-10 GHz OFDM- Based Radio over FSO Transmission System Incorporating ODSB and OSSB Modulation Schemes	Singh M., Dhasarathan V.	Journal of Optical Communications	2019	-	-	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
708	Environment friendly milling of Inconel-625	Singh P., Dureja J.S., Singh H., Bhatti M.S.	International Journal of Materials and Structural Integrity	2019	-	-	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
709	Cytotoxic effects of gold(i) complexes against colon, cervical and osteo carcinoma cell lines: A mechanistic approach	Sulaiman A.A.A., Kalia N., Bhatia G., Kaur M., Fettouhi M., Altaf M., Baig N., Kawde A.-N., Isab A.A.	New Journal of Chemistry	2019	-	-	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
710	Some approximate fixed point theorems without continuity of the operator using auxiliary functions	Chandok S., Ansari A.H., Narang T.D.	Mathematica Bohemica	2019	-	-	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
711	Synthesis of 2-acetylpyridine-N-substituted thiosemicarbazones of copper(ii) with high antimicrobial activity against methicillin resistant S. aureus, K. pneumoniae 1 and C. albicans	Kaushal M., Lobana T.S., Nim L., Bala R., Arora D.S., Garcia-Santos I., Duff C.E., Jasinski J.P.	New Journal of Chemistry	2019	-	-	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
712	Immunological impairment as a marker of 4-nonylphenol induced stress	Sharma M., Chadha P.	Indian Journal of Animal Sciences	2019	-	-	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 Vishwavidyalaya, Palampur, Himachal Pradesh, India
713	Design, synthesis, antimicrobial evaluation, and molecular modeling studies of novel indolinedione-coumarin molecular hybrids	Bhagat K., Bhagat J., Gupta M.K., Singh J.V., Gulati H.K., Singh A., Kaur K., Kaur G., Sharma S., Rana A., Singh H., Sharma S., Bedi P.M.S.	ACS Omega	2019	-	-	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



714	Silver derivatives of multi-donor heterocyclic thioamides as antimicrobial/anticancer agents: Unusual bio-activity against methicillin resistant: <i>S. aureus</i> , <i>S. epidermidis</i> , and <i>E. faecalis</i> and human bone cancer MG63 cell line	Aulakh J.K., Lobana T.S., Sood H., Arora D.S., Kaur R., Singh J., Garcia- Santos I., Kaur M., Jasinski J.P.	RSC Advances	2019	-	-	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
715	AMST-MAC: Adaptive sleeping multi-frames selective data transmission control for wireless sensor networks	Jain B., Brar G., Malhotra J.	International Journal of Advanced Intelligence Paradigms	2019	-	-	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
716	Diastereoselective approach to rationally design tetrahydro- $\beta$ -carboline-isatin conjugates as potential SERMs against breast cancer	Sharma B., Singh A., Gu L., Saha S.T., Singh-Pillay A., Cele N., Singh P., Kaur M., Kumar V.	RSC Advances	2019	-	-	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
717	Optimization of process parameters for preparation of rice extrudates from short and long Indica rice cultivars milled to varying degree of milling	Sandhu R.S., Singh N., Kaler R., Singh B.	Journal of Food Science and Technology	2019	-	-	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
718	Performance evaluation of coated carbide tool during face milling of AISI 304 under different cutting environments	Singh P., Dureja J.S., Singh H., Bhatti M.S.	Materials Research Express	2019	-	-	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
719	Pulse proteins: secondary structure, functionality and applications	Shevkani K., Singh N., Chen Y., Kaur A., Yu L.	Journal of Food Science and Technology	2019	-	-	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
720	Ferrocene-appended pharmacophores: An exciting approach for modulating the biological potential of organic scaffolds	Singh A., Lumb I., Mehra V., Kumar V.	Dalton Transactions	2019	-	-	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
721	Comprehensive analysis of routing protocols surrounding underwater sensor networks (UWSNs)	Nayyar A., Puri V., Le D.-N.	Advances in Intelligent Systems and Computing	2019	-	-	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
722	Applications of Molecular Structural Aspects of Gemini Surfactants in Reducing Nanoparticle-Nanoparticle Interactions	Kaur R., Singh K., Khullar P., Gupta A., Ahluwalia G.K., Bakshi M.S.	Langmuir	2019	-	-	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





723	Triarylethylene-indolin-2,3-dione molecular conjugates: Design, synthesis, docking studies and anti-proliferation evaluation	Kumar S., Palma G., Perumal S., Kaur M., Singh-Pillay A., Raj R., Singh P., Kumar V.	RSC Advances	2019	-	-	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
724	Structural, dielectric and magnetic properties of Al-Mn substituted nano-sized M-type strontium hexagonal ferrites	Mohammed J., Hafeez H.Y., Tchouank Tekou Carol T., Sharma J., Isma'li U.T., Godara S.K., Srivastava A.K.	Materials Today: Proceedings	2019	-	-	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
725	Fabrication of plasmonic dye-sensitized solar cells using ion- implanted photoanodes	Kaur N., Mahajan A., Bhullar V., Singh D.P., Saxena V., Debnath A.K., Aswal D.K., Devi D., Singh F., Chopra S.	RSC Advances	2019	-	-	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
726	Persistent Dimer Emission in Thermally Activated Delayed Fluorescence Materials	Etherington M.K., Kukhta N.A., Higginbotham H.F., Danos A., Bismillah A.N., Graves D.R., McGonigal P.R., Haase N., Morherr A., Batsanov A.S., Pflumm C., Bhalla V., Bryce M.R., Monkman A.P.	Journal of Physical Chemistry C	2019	-	-	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
727	Structural and magnetic investigations of a binuclear coordination compound of dysprosium(iii) dinitrobenzoate	Sran B.S., Gonzalez J.F., Montigaud V., Le Guennic B., Pointillart F., Cadot O., Hundal G.	Dalton Transactions	2019	-	-	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
728	Synthesis, anti-mycobacterial and cytotoxic evaluation of substituted isoindoline-1,3-dione-4-aminoquinolines coupled: Via alkyl/amide linkers	Rani A., Viljoen A., Johansen M.D., Kremer L., Kumar V.	RSC Advances	2019	-	-	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
729	A benzimidazolyl terpyridine-Fe <sup>2+</sup> system and its recognition driven molecular model of a traffic light	Sonkar A.K., Rai A., Tripathi K., Sharma P., Roesky H.W., Drew M.G.B., Mishra L.	Dalton Transactions	2019	-	-	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
730	Study of obliquely propagating electron acoustic shock waves with non-extensive electron population	Bansal S., Aggarwal M., Gill T.S.	Plasma Science and Technology	2019	-	-	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
731	Pathological perturbations in diabetic retinopathy: Hyperglycemia, AGEs, oxidative stress and inflammatory pathways	Sahajpal N.S., Goel R.K., Chaubey A., Aurora R., Jain S.K.	Current Protein and Peptide Science	2019	-	-	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 Bangalore Karnataka, India



732	Synthesis, spectroscopic characterization and in vitro cytotoxic as well as docking studies of cis-diammine platinum(II) complexes of thiones	Jomaa M.Y., Ahmad S., Seliman A.A.A., Popoola S.A., Shaikh A.R., Al-Saadi A.A., Bhatia G., Singh J., Isab A.A.	Inorganica Chimica Acta	2019	-	-	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
733	Aqueous systems of a surface active ionic liquid having an aromatic anion: Phase behavior, exfoliation of graphene flakes and its hydrogelation	Kaur M., Singh G., Damarla K., Singh G., Wang H., Wang J., Aswal V.K., Kumar A., Kang T.S.	Physical Chemistry Chemical Physics	2019	-	-	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
734	Pre-clinical and cellular toxicity evaluation of 7-methylxanthine: an investigational drug for the treatment of myopia	Singh H., Sahajpal N.S., Singh H., Vanita V., Roy P., Paul S., Singh S.K., Kaur I., Jain S.K.	Drug and Chemical Toxicology	2019	-	-	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India; Department of Human Genetics, Guru Nanak Dev University, Amritsar, India; Department of Biotechnology, Indian Institute of Technology, Roorkee, India; Department of Pathology, Government Medical College, Amritsar, India; Cancer Pharmacology Division, Indian Institute of Integrative Medicine, Jammu, India; Department of Ophthalmology, Baba Farid University of Health Sciences, Punjab, India
735	Response of phenylpropanoid pathway and the role of polyphenols in plants under abiotic stress	Sharma A., Shahzad B., Rehman A., Bhardwaj R., Landi M., Zheng B.	Molecules	2019	-	-	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
736	Structural, Dielectric, and Magneto-Optical Properties of Al- Cr Substituted M-Type Barium Hexaferrite	Carol Trudel T.T., Mohammed J., Hafeez H.Y., Bhat B.H., Godara S.K., Srivastava A.K.	Physica Status Solidi (A) Applications and Materials Science	2019	-	-	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
737	Structural, dielectric, and magneto-optical properties of Cu <sup>2+</sup> -Er <sup>3+</sup> substituted nanocrystalline strontium hexaferrite	Mohammed J., Hafeez H.Y., Tchouank Tekou Carol T., Ndikilar C.E., Sharma J., Maji P.K., Godara S.K., Srivastava A.K.	Materials Research Express	2019	-	-	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



738	An empirical evaluation of an advanced version control tool in conflict detection and resolution	Kaur I., Kaur P., Singh H.	International Journal of Computers and Applications	2019	-	-	Department of Computer Science, Guru Nanak Dev University, Amritsar, India
739	Investigation of bismuth borate glass system modified with barium for structural and gamma-ray shielding properties	Kaur P., Singh K.J., Thakur S., Singh P., Bajwa B.S.	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, Guru Nanak Dev University College Verka, Amritsar, Punjab 143501, India
740	Cascade recognition of Hg <sup>2+</sup> and cysteine using a naphthalene based ESIPT sensor and its application in a set/reset memorized device	Kaur N., Jindal G., Sukhvinder, Kumar S.	New Journal of Chemistry	2019	-	-	Department of Chemistry, Panjab University, Chandigarh, 160014, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India
741	Fault Diagnosis in Wireless Sensor Networks - A Survey	Malhotra N., Bala M.	Proceedings - 4th International Conference on Computing Sciences, ICCS 2018	2019	-	-	Punjab Technical University, Lovely Professional University, Phagwara, Punjab, India; Khalsa College of Engineering and Technology, Amritsar, Punjab, India
742	Self-assembled monolayers of 3-Hydroxy-N-(5-mercaptop-1,3,4-thiadiazol-2-yl) benzamide (HMTB): A platform for Impedimetric sensing of Co(II)	Kaur A., Kaur S., Sharma M., Kaur I.	Journal of Electroanalytical Chemistry	2019	-	-	Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab 143005, India
743	QRS detection of ECG signal using hybrid derivative and MaMeMi filter by effectively eliminating the baseline wander	Sheetal A., Singh H., Kaur A.	Analog Integrated Circuits and Signal Processing	2019	-	-	GNDU, Regional Campus, Gurdaspur, Punjab, India
744	Canagliflozin loaded SMEDDS: formulation optimization for improved solubility, permeability and pharmacokinetic performance	Singh D., Tiwary A.K., Bedi N.	Journal of Pharmaceutical Investigation	2019	-	-	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
745	Development of aqueous-based multi-herbal combination using principal component analysis and its functional significance in HepG2 cells	Kaur P., Robin, Mehta R.G., Singh B., Arora S.	BMC Complementary and Alternative Medicine	2019	-	-	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
746	The influence of substituents at C2/N1 atoms of pyridine-2- formaldehyde/-benzaldehyde-N1-substituted thiosemicarbazones on the type of copper(I) complexes	Sharma R., Lobana T.S., Castineiras A., Butcher R.J., Akitsu T.	polyhedron	2019	-	-	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
747	A Study of Data Threats and the Role of Cryptography Algorithms	Thapar S.S., Sarangal H.	2018 IEEE 9th Annual Information Technology, Electronics and Mobile Communication Conference, IEMCON 2018	2019	-	-	Department of PGP, Indian Institute of Management Amritsar, Amritsar, India; Department of Electronics Communication Engineering, Guru Nanak Dev University RC Jalandhar, Jalandhar, India
748	Plasmodium falciparum protein 'pfj23' hosts distinct binding sites for major virulence factor 'pfemp1' and maurer's cleft marker 'pfsbp1'	Kaur J., Kumar V., Singh A.P., Singh V., Bisht A., Dube T., Panda J.J., Behl A., Mishra P.C., Hora R.	Pathogens and Disease	2019	-	-	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
749	Scanning electron microscopy for analysing maturity of compost/vermicompost from crop residue spiked with cattle dung, Azolla pinnata and Aspergillus terreus	Arora M., Kaur A.	Environmental Science and Pollution Research	2019	-	-	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India
750	Connecting the dots between brand logo and brand image	Kaur H., Kaur K.	Asia-Pacific Journal of Business Administration	2019	-	-	Guru Nanak Dev University, Amritsar, India



751	Modulatory role of vermicompost and vermiwash on growth, yield and nutritional profiling of <i>Linum usitatissimum</i> L. (Linseed): a field study	Makkar C., Singh J., Parkash C.	Environmental Science and Pollution Research	2019	-	-	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
752	Effect of crude extracts and purified compounds of <i>Alpinia galanga</i> on nutritional physiology of a polyphagous lepidopteran pest, <i>Spodoptera litura</i> (Fabricius)	Datta R., Kaur A., Saraf I., Singh I.P., Kaur S.	Ecotoxicology and Environmental Safety	2019	-	-	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
753	Emotional intelligence: a analytical study of basketball players	Paul M.	International Journal of Current Research and Review	2019	-	-	Department of Physiotherapy, Guru Nanak Dev University, Amritsar, Punjab, India
754	Design and Performance Analysis of 2x2 electro-optic based MZI switch using Ti:LiNbO <sub>3</sub> as a waveguide at 1.46µm	Kaur S., Singh M., Priyanka, Singh H., Singh M.L.	Proceedings of 2019 3rd IEEE International Conference on Electrical, Computer and Communication Technologies, ICECCT 2019	2019	-	-	Dept of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India
755	Forensic Based Cloud Computing Architecture-Exploration and Implementation	Bhatia S., Malhotra J.	2019 Proceedings of the 3rd International Conference on Computing and Communications Technologies, ICCCT 2019	2019	-	-	Department of Computer Science, Guru Nanak Dev University, Amritsar, 143005, India; Faculty of Engineering and Technology, Guru Nanak Dev University, Amritsar, 143005, India
756	Influence of heat-moisture treatment (HMT) on physicochemical and functional properties of starches from different Indian oat ( <i>Avena sativa</i> L.) cultivars	Kaur M., Singh S.	International Journal of Biological Macromolecules	2019	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India
757	Rationally designed molecules for resurgence of cyanide mitigated cytochrome c oxidase activity	Kaur H., Singh P.	Bioorganic Chemistry	2019	-	-	Department of Chemistry, UGC Sponsored Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, 143005, India
758	A comparative study for the selection of an entropy technique to classify bearing faults	Singh Minhas A., Sharma N., Kankar P.K., Singh S.	Proceedings of 2019 3rd IEEE International Conference on Electrical, Computer and Communication Technologies, ICECCT 2019	2019	-	-	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
759	Synthesis, antimicrobial activity and high cell viability of copper derivatives of 2-thiouracil, purine-6-thione and 2,4,6-trimercaptotriazine	Aulakh J.K., Sharma S., Sood H., Arora D.S., Kaur M., Jasinski J.P., Lobana T.S.	Journal of Coordination Chemistry	2019	-	-	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
760	Evaluating novel fungal secretomes for efficient saccharification and fermentation of composite sugars derived from hydrolysate and molasses into ethanol	Brar K.K., Agrawal D., Chadha B.S., Lee H.	Bioresource Technology	2019	-	-	Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India; School of Environmental Sciences, University of Guelph, Guelph, ON N1G 2W1, Canada
761	A novel mutation in MERTK for rod-cone dystrophy in a North Indian family	Bhatia S., Kaur N., Singh I.R., Vanita V.	Canadian Journal of Ophthalmology	2019	-	-	Department of Human Genetics, Guru Nanak Dev University, Amritsar, India; Dr. Daljit Singh Eye Hospital, Amritsar, India
762	Global transcriptional insights of pollen-pistil interactions commencing self-incompatibility and fertilization in tea [ <i>Camellia sinensis</i> (L.) O. kuntze]	Seth R., Bhandawat A., Parmar R., Singh P., Kumar S., Sharma R.K.	International Journal of Molecular Sciences	2019	-	-	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
763	24-Epibrassinolide application in plants: An implication for improving drought stress tolerance in plants	Tanveer M., Shahzad B., Sharma A., Khan E.A.	Plant Physiology and Biochemistry	2019	-	-	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
764	Structure of lead tellurite glasses and its relationship with stress-optic properties	Kaur A., Hirdesh, Khanna A., Fábán M., Krishna P.S.R., Shinde A.B.	Materials Research Bulletin	2019	-	-	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



765	Plant growth promoting rhizobacteria induced Cd tolerance in <i>Lycopersicon esculentum</i> through altered antioxidative defense expression	Khanna K., Jamwal V.L., Kohli S.K., Gandhi S.G., Ohri P., Bhardwaj R., Abd_Allah E.F., Hashem A., Ahmad P.	Chemosphere	2019	-	-	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 Srinagar Jammu and Kashmir, India
766	Pollution assessment of heavy metals in soils of India and ecological risk assessment: A state-of-the-art	Kumar V., Sharma A., Kaur P., Singh Sidhu G.P., Bali A.S., Bhardwaj R., Thukral A.K., Cerda A.	Chemosphere	2019	-	-	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
767	Elemental Composition of Plants and Multivariate Analysis	Kumar V., Sharma A., Bhardwaj R., Thukral A.K.	National Academy Science Letters	2019	-	-	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India
768	A review on fate and remediation techniques of oil spills	Kumari A., Kaur R., Kaur R.	International Journal of Research in Pharmaceutical Sciences	2019	-	-	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India
769	Automated employee evaluation using fuzzy and neural network synergism through IoT assistance	Dhir K., Chhabra A.	Personal and Ubiquitous Computing	2019	-	-	Guru Nanak Dev University, Amritsar, Punjab, India
770	Effects of incorporation of groundnut oil and hydrogenated fat on pasting and dough rheological properties of flours from wheat varieties	Katyal M., Singh N., Singh H.	Journal of Food Science and Technology	2019	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India
771	Effect of native and gelatinized starches from various sources on sponge cake making characteristics of wheat flour	Bajaj R., Singh N., Kaur A.	Journal of Food Science and Technology	2019	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India
772	A comparative study for removal of cadmium(II) ions using unmodified and NTA-modified <i>Dendrocalamus strictus</i> charcoal powder	Saini S., Katnoria J.K., Kaur I.	Journal of Environmental Health Science and Engineering	2019	-	-	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
773	Influence of Phosphate-Based Salts on Enthalpy of Dilution and Isentropic Compressibility Properties of Saccharides and Their Derivatives in Aqueous Solutions	Aggarwal N., Sharma M., Banipal T.S., Banipal P.K.	Journal of Chemical and Engineering Data	2019	-	-	Department of Chemistry, Gandhi Memorial National College, Ambala Cantt, Haryana, 133001, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
774	Hard, medium-hard and extraordinarily soft wheat varieties: Comparison and relationship between various starch properties	Katyal M., Singh N., Chopra N., Kaur A.	International Journal of Biological Macromolecules	2019	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India
775	Antimicrobial Potential of Fungal Endophytes from <i>Moringa oleifera</i>	Arora D.S., Kaur N.	Applied Biochemistry and Biotechnology	2019	-	-	Microbial Technology Laboratory, Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India
776	Excitation wavelength based reversible multicolour photoluminescence by a single chromophore upon aggregation: Detection of picric acid-application in bioimaging	Kaur I., Sharma V., Mobin S.M., Kaur P., Singh K.	Sensors and Actuators, B: Chemical	2019	-	-	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



777	Performance evaluation of newly constructed NZCC for SAC- OCDMA using direct detection technique	Nisar K.S., Sarangal H., Thapar S.S.	Photonic Network Communications	2019	-	-	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
778	Association of SELP Polymorphisms with Soluble P-Selectin Levels and Vascular Risk in Patients with Type 2 Diabetes Mellitus: A Case-Control Study	Kaur R., Singh J., Kapoor R., Kaur M.	Biochemical Genetics	2019	-	-	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
779	Understanding the mechanism of adsorption of CTAB and polylysine on silver nanoparticles and detection of Hg 2+ : Experimental and DFT study	Moudgil L., Jaiswal J., Mittal A., Saini G.S.S., Singh G., Kaura A.	Journal of Molecular Liquids	2019	-	-	Department of Physics, Centre of Advanced Study in Physics, Panjab University, Chandigarh, 160014, India; Institute Instrumentation Centre, Indian Institute of Technology Roorkee-247667, 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
780	Antioxidant Potential and Extracellular Auxin Production by White Rot Fungi	Chandra P., Arora D.S., Pal M., Sharma R.K.	Applied Biochemistry and Biotechnology	2019	-	-	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
781	Molecular interaction between human SUMO-I and histone like DNA binding protein of Helicobacter pylori (Hup) investigated by NMR and other biophysical tools	Jaiswal N., Agarwal N., Kaur A., Tripathy S., Gahlay G.K., Arora A., Mitthu V.S., Poluri K.M., Kumar D.	International Journal of Biological Macromolecules	2019	-	-	Centre of Biomedical Research, SGP GIMS 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-247667 Uttarakhand, India; Department of Chemistry, Gurunank 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
782	Impact of transition metal ions on the structure and bioactivity of alkali-free bioactive glasses	Kapoor S., Brazete D., Pereira I.C., Bhatia G., Kaur M., Santos L.F., Banerjee D., Goel A., Ferreira J.M.F.	Journal of Non-Crystalline Solids	2019	-	-	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
783	Purification and characterization of actinomycins from Streptomyces strain M7 active against methicillin resistant Staphylococcus aureus and vancomycin resistant Enterococcus	Sharma M., Manhas R.K.	BMC Microbiology	2019	-	-	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
784	Self-assembly and supramolecular isomerism in copper (II) coordination compounds of pyridine-4-carboxamide based ligand	Sran B.S., Sharma S., Hundal G.	Inorganica Chimica Acta	2019	-	-	Department of Chemistry, UGC Sponsored-Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab 143005, India



785	Core-insertion of palladium in naphthalenediimides: Opto- electronic properties, structural insights and coupling studies	Bansal D., Kumar Y., Rustam, Kumar S., Mandal K., Hundal G., Mukhopadhyay P.	Inorganica Chimica Acta	2019	-	-	Supramolecular and Material Chemistry Lab, School of Physical Sciences, Jawaharlal Nehru University Delhi 110067, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India
786	Lightweight SrM/CCTO/rGO nanocomposites for optoelectronics and K u band microwave absorption	Mohammed J., Tekou Carol T., Hafeez H.Y., Basandrai D., Bhadu G.R., Godara S.K., Narang S.B., Srivastava A.K.	Journal of Materials Science: Materials in Electronics	2019	-	-	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
787	Assessment of spatio-temporal variation in pond water quality: A case study	Rajput S., Arora S., Kaur R.	Indian Journal of Environmental Protection	2019	-	-	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143 005, India
788	Negative effect of non-host protease inhibitors partially purified from Cassia glauca seeds on developmental physiology of Spodoptera litura	Vasudev A., Sohal S.K.	International Journal of Tropical Insect Science	2019	-	-	Department of Zoology (DST-FIST sponsored), Insect Physiology Laboratory, Guru Nanak Dev University, Amritsar, Punjab 143005, India
789	Temperature sensor based on exfoliated graphene sheets produced by microwave assisted freezing induced volumetric expansion of carbonated water	Kaur A., Singh R.C.	Journal of Materials Science: Materials in Electronics	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India
790	Synthesis and fabrication of zinc oxide nanostrands based piezoelectric nanogenerator	Kaur J., Singh H.	Journal of Materials Science: Materials in Electronics	2019	-	-	Guru Nanak Dev University, Amritsar, Punjab 143001, India
791	Investigation of $\gamma$ ray shielding, structural and dissolution rate studies of alkali based bismuth borate glass systems with MoO <sub>3</sub> added	Dogra M., Singh K.J., Kaur K.	Radiochimica Acta	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
792	An intelligent validation system for diagnostic and prognosis of ultrasound fetal growth analysis using Neuro-Fuzzy based on genetic algorithm	Kaur P., Singh G., Kaur P.	Egyptian Informatics Journal	2019	-	-	Department of Computer Engineering & Technology, Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India
793	Dust-acoustic solitary waves and shocks in nonthermal plasmas	Misra A.P., Saini N.S.	2019 URSI Asia-Pacific Radio Science Conference, AP-RASC 2019	2019	-	-	Visva-Bharati University, Santiniketan, 731235, India; Guru Nanak Dev University, Amritsar, 143005, India
794	Plagiarism: An essay in terminology	Satija M.P., Martínez-ávila D.	DESIDOC Journal of Library and Information Technology	2019	-	-	Department of Library and Information Science, Guru Nanak Dev University, Amritsar, 143005, India; Department of Information Science, São Paulo State University (UNESP), Marília, Brazil
795	A hydrolase with esterase activity expressed from a fosmid gene bank prepared from DNA of a North West Himalayan glacier frozen soil sample	Gupta V., Singh I., Kumar P., Rasool S., Verma V.	3 Biotech	2019	-	-	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
796	Evaluation of genotoxic and cytotoxic effects of ethyl acetate extract of Aspergillus flavus on Spodoptera litura	Kaur M., Chadha P., Kaur S., Kaur A., Kaur R., Yadav A.K., Kaur R.	Journal of Applied Microbiology	2019	-	-	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
797	Distribution of angiotensin converting enzyme gene (insertion/deletion) polymorphism in Indian populations	Singh G., Bhanwer A.J.S.	Gene Reports	2019	-	-	Department of Human Genetics, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Anthropology, Panjab University, Chandigarh, 160014, India



798	Highly sensitive gas sensor based on Er-doped SnO <sub>2</sub> nanostructures and its temperature dependent selectivity towards hydrogen and ethanol	Singh G., Virpal, Singh R.C.	Sensors and Actuators, B: Chemical	2019	-	-	Department of Applied Physics, Chandigarh University, Gharuan, Mohali, Punjab, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
799	Broad-band microwave absorption and magnetic properties of M-type Ba(1-2x)LaxNaxFe <sub>10</sub> Co <sub>0.5</sub> TiMn <sub>0.5</sub> O <sub>19</sub> hexagonal ferrite in 18.0–26.5 GHz frequency range	Narang S.B., Arora A.	Journal of Magnetism and Magnetic Materials	2019	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; D.A.V. Institute of Engineering and Technology, Jalandhar, India
800	Uranium distribution in groundwater and assessment of age dependent radiation dose in Amritsar, Gurdaspur and Pathankot districts of Punjab, India	Sharma T., Sharma A., Kaur I., Mahajan R.K., Litoria P.K., Sahoo S.K., Bajwa B.S.	Chemosphere	2019	-	-	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
801	Role of plant growth promoting Bacteria (PGPRs) as biocontrol agents of Meloidogyne incognita through improved plant defense of Lycopersicon esculentum	Khanna K., Jamwal V.L., Kohli S.K., Gandhi S.G., Ohri P., Bhardwaj R., Wijaya L., Alyemeni M.N., Ahmad P.	Plant and Soil	2019	-	-	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
802	Tuning the dielectric and optical properties of Pr-Co-substituted calcium copper titanate for electronics applications	Mohammed J., Carol T. T.T., Hafeez H.Y., Adamu B.I., Wudil Y.S., Takai Z.I., Godara S.K., Srivastava A.K.	Journal of Physics and Chemistry of Solids	2019	-	-	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, Amritsar, 143005, India
803	Recent developments in biological aspects of chalcones: the odyssey continues	Rani A., Anand A., Kumar K., Kumar V.	Expert Opinion on Drug Discovery	2019	-	-	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
804	Elevated oxidative DNA damage in patients with coronary artery disease and its association with oxidative stress biomarkers	Bhat M.A., Gandhi G.	Acta Cardiologica	2019	-	-	Department of Human Genetics, Guru Nanak Dev University, Amritsar, India
805	Diversity in protein secondary structure, molecular weight, mineral and amino acid composition of lentil and horse gram germplasm	Ghumman A., Singh N., Kaur A., Rana J.C.	Journal of Food Science and Technology	2019	-	-	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
806	Efficient and Fast Copy Move Image Forgery Detection Technique	Kaur K.	Proceedings of the 2nd International Conference on Intelligent Computing and Control Systems, ICICCS 2018	2019	-	-	Guru Nanak Dev University (GNDU), Amritsar, India
807	Complexation Behavior of $\beta$ -Lactoglobulin with Surface Active Ionic Liquids in Aqueous Solutions: An Experimental and Computational Approach	Singh G., Singh G., Kancharla S., Kang T.S.	Journal of Physical Chemistry B	2019	-	-	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





808	Cd induced generation of free radical species in Brassica juncea is regulated by supplementation of earthworms in the drilosphere	Kaur P., Bali S., Sharma A., Kohli S.K., Vig A.P., Bhardwaj R., Thukral A.K., Abd-Allah E.F., Wijaya L., Alyemeni M.N., Ahmad P.	Science of the Total Environment	2019	-	-	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
809	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	Kaur H., Kaur M., Walia P.K., Kumar M., Bhalla V.	Chemistry - An Asian Journal	2019	-	-	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, India
810	Evaluating groundwater for its probable mutagenicity and genotoxicity using in vitro bioanalytical tools	Kaur T., Bhardwaj R., Arora S.	Exposure and Health	2019	-	-	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India
811	A morphologically robust chaotic map based approach to embed patient’s confidential data securely in non-QRS regions of ECG signal	Soni N., Saini I., Singh B.	Australasian Physical and Engineering Sciences in Medicine	2019	-	-	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
812	A comparative study of phytochemicals, antioxidant potential and in-vitro DNA damage protection activity of different oat (Avena sativa) cultivars from India	Singh S., Kaur M., Sogi D.S., Purewal S.S.	Journal of Food Measurement and Characterization	2019	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Biotechnology, Chaudhary Devi Lal University, Sirsa, Haryana, India
813	Millet: a cereal grain with potent antioxidants and health benefits	Kaur P., Purewal S.S., Sandhu K.S., Kaur M., Salar R.K.	Journal of Food Measurement and Characterization	2019	-	-	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
814	Estradiol attenuates ischemia reperfusion-induced acute kidney injury through PPAR-γ stimulated eNOS activation in rats	Singh A.P., Singh N., Pathak D., Bedi P.M.S.	Molecular and Cellular Biochemistry	2019	-	-	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
815	Coronene diimide-based self-assembled (fibre-to-disc) fluorescent aggregates for visualization of latent fingerprints	Kumar K., Singh H., Vanita V., Singh R., Joshi K.B., Bhargava G., Kumar S., Singh P.	Sensors and Actuators, B: Chemical	2019	-	-	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
816	Thermally Stable Ionic Liquid-Based Microemulsions for High- Temperature Stabilization of Lysozyme at Nanointerfaces	Kaur M., Singh G., Kaur A., Sharma P.K., Kang T.S.	Langmuir	2019	-	-	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
817	In vitro evaluation of the α-glucosidase inhibitory potential of methanolic extracts of traditionally used antidiabetic plants	Bhatia A., Singh B., Arora R., Arora S.	BMC Complementary and Alternative Medicine	2019	-	-	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



818	Secure techniques for the UAV networks: A review	Padam R., Malhotra J.	2018 International Conference on Computing, Power and Communication Technologies, GUCON 2018	2019	-	-	Masters of Technology, Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India
819	Antimicrobial potential of pomegranate peel: a review	Singh B., Singh J.P., Kaur A., Singh N.	International Journal of Food Science and Technology	2019	-	-	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
820	Physicochemical evaluation of corn extrudates containing varying buckwheat flour levels prepared at various extrusion temperatures	Singh J.P., Kaur A., Singh B., Singh N., Singh B.	Journal of Food Science and Technology	2019	-	-	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
821	Innovative behavioral techniques to reduce stress among vii grade learners	Kauts D.S., Kapatia P.	International Journal of Recent Technology and Engineering	2019	-	-	Guru Nanak Dev University, TF-40, Gndu Campus, Amritsar, 143005, India; Guru Nanak Dev University, Amritsar, India
822	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	Singh M., Malhotra J.	Optical Engineering	2019	-	-	Guru Nanak Dev University, Regional Campus, Department of Electronics and Communication Engineering, Jalandhar, India
823	Effect of tungsten doping on structural and optical properties of rutile TiO <sub>2</sub> and band gap narrowing	Singh J., Sharma S., Sharma S., Singh R.C.	Optik	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India
824	Effect of high-intensity ultrasound treatment on nutritional, rheological and structural properties of starches obtained from different cereals	Kaur H., Gill B.S.	International Journal of Biological Macromolecules	2019	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India
825	IoT-fog-based healthcare framework to identify and control hypertension attack	Sood S.K., Mahajan I.	IEEE Internet of Things Journal	2019	-	-	Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus Gurdaspur, Gurdaspur, 143521, India
826	Anatomization of Detection and Performance Measures Techniques for Flooding Attacks using Routing Protocols in MANETs	Mintu, Singh G., Malhi S.S., Mahajan M., Batra S., Bath R.S.	2019 International Conference on Automation, Computational and Technology Management, ICACTM 2019	2019	-	-	Guru Nanak Dev University, Punjab, India; Lovely Professional University, Punjab, India
827	A review of different cost-based distributed query optimizers	Sharma M., Singh G., Singh R.	Progress in Artificial Intelligence	2019	-	-	Department of Computer Science and Applications, DAVU, Jalandhar, India; Department of Computer Science, GNDU, Amritsar, Punjab, India
828	Myxococcus xanthus truncated globin HbO <sub>2</sub> : in silico analysis and functional characterization	Singh S.K., Kaur R., Kumar A., Kaur R.	Molecular Biology Reports	2019	-	-	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
829	Fabrication of sensitive SWCNT sensor for trace level detection of reducing and oxidizing gases (NH <sub>3</sub> and NO <sub>2</sub> ) at room temperature	Lone M.Y., Kumar A., Husain S., Singh R.C., Zulfeqar M., Husain M.	Physica E: Low-Dimensional Systems and Nanostructures	2019	-	-	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
830	Inner membrane complex 11 protein of Plasmodium falciparum links membrane lipids with cytoskeletal element 'actin' and its associated motor 'myosin'	Kumar V., Behl A., Kapoor P., Nayak B., Singh G., Singh A.P., Mishra S., Kang T.S., Mishra P.C., Hora R.	International Journal of Biological Macromolecules	2019	-	-	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



831	Development and validation of a stability indicating UV-spectrophotometric assay method for the determination of naratriptan hydrochloride	Gupta A., Kumar J., Narang J.K., Verma S., Singh H., Haque A.	Pertanika Journal of Science and Technology	2019	-	-	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, Kharj, Saudi Arabia; IKG T University, Jalandhar, Punjab, India
832	Quality of Service (QoS) Aware Workflow Scheduling (WFS) in Cloud Computing: A Systematic Review	Kaur S., Bagga P., Hans R., Kaur H.	Arabian Journal for Science and Engineering	2019	-	-	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
833	A novel fused coupled chaotic map based confidential data embedding-then-encryption of electrocardiogram signal	Pandey A., Singh B., Saini B.S., Sood N.	Biocybernetics and Biomedical Engineering	2019	-	-	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
834	Thermostable xylanases from thermophilic fungi and bacteria: Current perspective	Chadha B.S., Kaur B., Basotra N., Tsang A., Pandey A.	Bioresource Technology	2019	-	-	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
835	Effect of chickpea and spinach on extrusion behavior of corn grit	Shevkani K., Singh N., Rattan B., Singh J.P., Kaur A., Singh B.	Journal of Food Science and Technology	2019	-	-	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
836	Comprehensive investigation of structural, dielectric and local piezoelectric properties of KNN ceramics	Kumari P., Lal M., Kumar S., Rai R., Singh A., Karpinsky D.V., BdiKin I.	Journal of Advanced Dielectrics	2019	-	-	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
837	Design of nano-sized Pr <sup>3+</sup> -Co <sup>2+</sup> -substituted M-type strontium hexaferrites for optical sensing and electromagnetic interference (EMI) shielding in Ku band	Mohammed J., Trudel T.T.C., Hafeez H.Y., Basandrai D., Bhadu G.R., Godara S.K., Narang S.B., Srivastava A.K.	Applied Physics A: Materials Science and Processing	2019	-	-	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



838	Self-focusing of q-Gaussian laser beam in relativistic plasma under the effect of light absorption	Kashyap R., Aggarwal M., Gill T.S., Arora N.S., Kumar H., Moudhgill D.	Optik	2019	-	-	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
839	Sikh ethnonationalism and militancy: manifestation and prognosis	Deol S.S.	Asian Ethnicity	2019	-	-	Department of Political Science, Guru Nanak Dev University, Amritsar, Punjab, India
840	The structural and magnetic properties, non-Debye relaxation and hopping mechanism in $Pb_{1-x}Nd_xFeO_3$ (where $x = 0.1, 0.2$ and $0.3$ ) solid solutions	Kumar S., Pal J., Kaur S., Malhi P.S., Singh M., Babu P.D., Singh A.	Journal of Asian Ceramic Societies	2019	-	-	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
841	Performance comparison of coated carbide tool under different cooling/lubrication environments during face milling of Inconel-625 and Stainless Steel 304	Singh P., Dureja J.S., Singh H., Bhatti M.S.	World Journal of Engineering	2019	-	-	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
842	Structural and dielectric properties of $(BaxMg_{1-x})(Ti_{0.95}Sn_{0.05})O_3$ ( $x = 0.025, 0.05, 0.075$ and $0.1$ ) solid solutions	Singh J., Bahel S.	Journal of Materials Science: Materials in Electronics	2019	-	-	Department of Electronic Technology, Guru Nanak Dev University, Amritsar, Punjab, India
843	Structure of $xMoO_3-(100-x)TeO_2$ glasses by neutron diffraction and Reverse Monte Carlo modeling	Khanna A., Kaur A., Fábíán M., Krishna P.S.R., Shinde A.B.	Materials Research Express	2019	-	-	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
844	Cationic Pd(II) catalyzed regioselective intramolecular hydroarylation for the efficient synthesis of 4-aryl-2-quinolones	Singh K., Malviya B.K., Verma V.P., Badsara S.S., Bhardwaj V.K., Sharma S.	Tetrahedron	2019	-	-	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
845	Impact of roasting and extraction methods on chemical properties, oxidative stability and Maillard reaction products of peanut oils	Suri K., Singh B., Kaur A., Singh N.	Journal of Food Science and Technology	2019	-	-	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
846	Performance analysis and comparison of parallel computing frameworks: Sips and openmp	Kaur L., Kumar A.	2019 International Conference on Intelligent Computing and Control Systems, ICCS 2019	2019	-	-	GNDU, CSE Department, Asr, India
847	Characterization of a cold-active, detergent-stable metalloproteinase purified from <i>Bacillus</i> sp. S1DI 10 using Response Surface Methodology	Singh D., Thakur S., Thayil S.M., Kesavan A.K.	PLoS ONE	2019	-	-	Molecular Microbiology Lab, Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India
848	Evaluation of pasting and dough rheological properties of composite flours made from flour varied in gluten strength	Katyal M., Kaur A., Singh N.	Journal of Food Science and Technology	2019	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India
849	Imaging of lysosomal activity using naphthalimide-benzimidazole based fluorescent probe in living cells	Sharma P., Gupta N., Kaur S., Kaur S., Ohri P., Parihar R.D., Bhatta V., Kumar M.	Sensors and Actuators, B: Chemical	2019	-	-	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



850	Genotypic-Phenotypic Screening of Galectin-3 in Relation to Risk Towards Rheumatoid Arthritis in North Indian Population	Kaur T., Thakur K., Singh J., Arora S., Kaur M.	Archives of Medical Research	2019	-	-	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
851	Effect of three-step calcination on structural, magnetic and microwave properties of BaFe 11.5 Ti 0.5 O 19 hexaferrite	Mahadevan S., Narang S.B., Sharma P.	Ceramics International	2019	-	-	School of Physics & Materials Science, Thapar Institute of Engineering & Technology, Patiala, Punjab 147004, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India
852	Assessment of radon and potentially toxic metals in agricultural soils of Punjab, India	Kaur I., Gupta A., Singh B.P., Sharma S., Kumar A.	Microchemical Journal	2019	-	-	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
853	Biomass derived hierarchical porous carbon materials as oxygen reduction reaction electrocatalysts in fuel cells	Kaur P., Verma G., Sekhon S.S.	Progress in Materials Science	2019	-	-	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
854	Rheological and pasting behavior of OSA modified mungbean starches and its utilization in cake formulation as fat replacer	Punia S., Siroha A.K., Sandhu K.S., Kaur M.	International Journal of Biological Macromolecules	2019	-	-	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
855	Complexity sorting and coupled chaotic map based on 2D ECG data compression-then-encryption and its OFDM transmission with impair sample correction	Pandey A., Saini B.S., Singh B., Sood N.	Multimedia Tools and Applications	2019	-	-	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
856	Selenium modulates dynamics of antioxidative defence expression, photosynthetic attributes and secondary metabolites to mitigate chromium toxicity in Brassica juncea L. plants	Handa N., Kohli S.K., Sharma A., Thukral A.K., Bhardwaj R., Abd_Allah E.F., Alqarawi A.A., Ahmad P.	Environmental and Experimental Botany	019	-	-	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
857	Persistent Dimer Emission in Thermally Activated Delayed Fluorescence Materials	Etherington M.K., Kukhta N.A., Higginbotham H.F., Danos A., Bismillah A.N., Graves D.R., McGonigal P.R., Haase N., Morherr A., Batsanov A.S., Pflumm C., Bhalla V., Bryce M.R., Monkman A.P.	Journal of Physical Chemistry C	2019	-	-	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



858	Exploring the Role of Consecutive Addition of Nitrogen Atoms on Stability and Reactivity of Hydrogen-Bonded Azine-Water Complexes	Chopra N., Chopra G., Kaur D.	ACS Omega	2019	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India
859	Structure-property correlations in molybdenum trioxide thin films and nanoparticles	Bhatia S., Khanna A., Jain R.K., Hirdesh	Materials Research Express	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Physics, BBKDAV College for Women, Amritsar, Punjab, 143005, India
860	Effect of induced transportation stress in goats supplemented with vitamin C and jaggery during hot dry season	Ahmad Mir N., Ashutosh A., Ahmad Shergojoy S., Ahmed Wani S., Ahmad Sheikh F.	Biological Rhythm Research	2019	-	-	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
861	Unprecedented synthesis of symmetrical azines from alcohols and hydrazine hydrate using nickel based NNN-pincer catalyst: An experimental and computational study	Shiekh B.A., Kaur D., Godara S.K.	Catalysis Communications	2019	-	-	Department of Chemistry, UGC Sponsored Centre of Advanced Studies-I, Guru Nanak Dev University, Amritsar, 143005, India
862	Dielectric and microwave reflection properties of M-phase LNT (Li-Nb-Ti-O) solid solutions in X-band frequency range	Singh R., Bahel S., Narang S.B.	Journal of Alloys and Compounds	2019	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India
863	Exploring the bank selection criteria in India: scale development and validation	Arora S., Kaur H.	International Journal of Bank Marketing	2019	-	-	Department of Commerce, Guru Nanak Dev University, Amritsar, India
864	Impact of SNPs interplay across the locus of MBL2, between MBL and Dectin-1 gene, on women's risk of developing recurrent vulvovaginal infections	Kalia N., Singh J., Sharma S., Kaur M.	Cell and Bioscience	2019	-	-	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
865	Exploration of carbohydrate binding behavior and anti-proliferative activities of Arisaema tortuosum lectin	Thakur K., Kaur T., Kaur M., Hora R., Singh J.	BMC Molecular Biology	2019	-	-	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
866	Multi-response optimization in environment friendly turning of AISI 304 austenitic stainless steel	Singh T., Dureja J.S., Dogra M., Bhatti M.S.	Multidiscipline Modeling in Materials and Structures	2019	-	-	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
867	Structural, optical and thermal properties of nickel doped bismuth borate glasses	Thakur S., Thakur V., Kaur A., Singh L.	Journal of Non-Crystalline Solids	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India
868	Effect of structural and thermal disorder on the optical band gap energy of Cr2O3 nanoparticles	Singh J., Verma V., Kumar R., Sharma S., Kumar R.	Materials Research Express	2019	-	-	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
869	Characterization of a novel Lytic Polysaccharide Monooxygenase from Malbranchea cinnamomea exhibiting dual catalytic behavior	Basotra N., Dhiman S.S., Agrawal D., Sani R.K., Tsang A., Chadha B.S.	Carbohydrate Research	2019	-	-	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



870	Analytical mapping of research on disaster management, types and role of ICT during 2011–2018	Kaur A., Sood S.K.	Environmental Hazards	2019	-	-	Department of Computer Science and Engineering, Guru Nanak Dev University, Gurdaspur, India
871	Ultra-morphology of the scale as an indicator of the stress of Acid Black-1 (AB-1, CI: 20470) and zinc (Zn)	Kaur R., Kaur A., Kaur K.	Environmental Science and Pollution Research	2019	-	-	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Zoology, Khalsa College, Amritsar, Punjab 143002, India
872	Nutrient recovery from pigeon dropping by using exotic earthworm <i>Eisenia fetida</i>	Singh S., Singh J., Kaur A., Kaur J., Vig A.P., Bhat S.A.	Sustainable Chemistry and Pharmacy	2019	-	-	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
873	Studies on intercropping of maize ( <i>zea mays</i> L.) with pea ( <i>pisum sativum</i> L.) genotype	Aulakh G.S., Singh G., Singh A.	Indian Journal of Ecology	2019	-	-	Khalsa College, Amritsar, 143 002, India
874	Factors of stress amongst students of professional institutes	Preet K., Ahluwalia A.K.	Prabandhan: Indian Journal of Management	2019	-	-	Guru Nanak Dev University Regional Campus, Gurdaspur, Punjab 143 521, India
875	User assisted cooperative relaying in beam space massive MIMO NOMA based systems for millimeter wave communications	Kaur J., Singh M.L.	China Communications	2019	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, 143005, India
876	Effect of Composition of Board and Promoter Group Retained Ownership on Underpricing of Indian IPO firms: An Empirical Study	Anand R., Singh B.	Indian Journal of Corporate Governance	2019	-	-	University School of Financial Studies, Guru Nanak Dev University, Amritsar, Punjab, India
877	Traditional Indian sports – A case-control study on Kho Kho players investigating genomic instability and oxidative stress as a function of metabolic genotypes	Gandhi G., Sharma R., Kaur G.	Heliyon	2019	-	-	Department of Human Genetics, Guru Nanak Dev University, Amritsar, 143 005, India
878	Influence of grain size and porosity on X-band properties of Mn-Zr substituted Ni-Co ferrites	Pubby K., Bindra Narang S.	Materials Letters	2019	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India
879	Re-powering technique to compare its suitability with on-demand distance vector routing protocols	Angurala M., Bala M., Bamber S.S.	International Journal of Innovative Technology and Exploring Engineering	2019	-	-	Punjab Technical University, Kapurthala, Punjab, India; Panjab University Swami Sarvanand Giri Regional, Centre Hoshiarpur Punjab, India; Khalsa College of Engineering and Technology, Amritsar, Punjab, India
880	Use of energy replenishment model to find optimum radio propagation model in wireless sensor networks	Angurala M., Bala M., Bamber S.S.	International Journal of Innovative Technology and Exploring Engineering	2019	-	-	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
881	In-vitro assessment of HA-Nb coating on Mg alloy ZK60 for biomedical applications	Singh B., Singh G., Sidhu B.S., Bhatia N.	Materials Chemistry and Physics	2019	-	-	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
882	Biomonitoring of genotoxicity of industrial wastes using plant bioassays	Bhat S.A., Cui G., Li F., Vig A.P.	Bioresource Technology Reports	2019	-	-	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
883	Biocontrol potential of <i>Distolabrellus veechi</i> isolate KPI (Nemata: Rhabditida) against cotton cutworm, <i>Spodoptera litura</i> (Lepidoptera: Noctuidae)	Parihar R.D., Singh D., Verma V., Sohal S.K., Kesavan A.K., Ohri P.	Indian Journal of Nematology	2019	-	-	Department of Zoology, DAV University Jalandhar, India; Department of Botany, DAV University Jalandhar, India; Department of Zoology, Guru Nanak Dev University-Amritsar Punjab, India; Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India
884	Opto-electric and physio-chemical changes in oxygen ion irradiated natural Vermiculite mineral	Kaur S., Singh S., Singh L.	Applied Radiation and Isotopes	2019	-	-	Department of Physics, Hindu College, Amritsar, Punjab 143005, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India
885	Spatially resolved X-ray fluorescence, Raman and photoluminescence spectroscopy of Eu 3+ /Er 3+ doped tellurite glasses and anti-glasses	Gupta N., Hirdesh, Kaur R., Khanna A., Singh S., Gupta B.K.	Journal of Non-Crystalline Solids	2019	-	-	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



886	Rheological behavior of wheat starch and barley resistant starch (type IV) blends and their starch noodles making potential	Punia S., Siroha A.K., Sandhu K.S., Kaur M.	International Journal of Biological Macromolecules	2019	-	-	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
887	Prospective of nuclear magnetic moment measurements by photofission reactions at ELI-NP	Kaur J., Balabanski D.L., Georgiev G., Constantin P.	Hyperfine Interactions	2019	-	-	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
888	Electromagnetic interference (EMI) shielding, microwave absorption, and optical sensing properties of BaM/CCO composites in K u -band	Mohammed J., Tchouank Tekou Carol T., Hafeez H.Y., Basandrai D., Bhadu G.R., Godara S.K., Narang S.B., Srivastava A.K.	Results in Physics	2019	-	-	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
889	Fibrous raw material of bamboo origin with improved fibrillation and spinnability	Kaur V., Chattopadhyay D., Kaur S., Kaur M.	Journal of the Textile Institute	2019	-	-	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
890	Do people virtually support their favorite cricket team? Insights from 2018 Asia Cup	Singh P., Kahlon K.S., Kaur H., Sawhney R.S.	ACM International Conference Proceeding Series	2019	-	-	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
891	Properties of octenyl succinic anhydride (OSA) modified starches and their application in low fat mayonnaise	Bajaj R., Singh N., Kaur A.	International Journal of Biological Macromolecules	2019	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India
892	Elucidating the intermolecular hydrogen bonding interaction of proline with amides—quantum chemical calculations	Chopra G., Chopra N., Kaur D.	Structural Chemistry	2019	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, 143005, India
893	Physicochemical, rheological, morphological and in vitro digestibility properties of pearl millet starch modified at varying levels of acetylation	Siroha A.K., Sandhu K.S., Kaur M., Kaur V.	International Journal of Biological Macromolecules	2019	-	-	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
894	Genetic variation and population structure of five ethnic groups from Punjab, North-West India: Analysis of MHC class I polymorphic Alu insertions (POALINs)	Singh G., Sandhu H.S., Sharma R., Srinivas Y., Matharoo K., Singh M., Bhanwer A.J.S.	Gene	2019	-	-	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





895	Role of P-type ATPase metal transporters and plant immunity induced by jasmonic acid against Lead (Pb) toxicity in tomato	Bali S., Jamwal V.L., Kaur P., Kohli S.K., Ohri P., Gandhi S.G., Bhardwaj R., Al-Huqail A.A., Siddiqui M.H., Ahmad P.	Ecotoxicology and Environmental Safety	2019	-	-	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
896	Simulating longitudinal vibrations of coupled oscillator using the fourth-order Runge-Kutta method by programming spreadsheet	Singh I., Kaur B., Khun Khun K.	European Journal of Physics	2019	-	-	PG Department of Physics, Khalsa College, Amritsar, 143005, India; School of Mathematics, Thapar Institute of Engineering and Technology, Patiala, 147004, India
897	Bergapten Ameliorates Vincristine-Induced Peripheral Neuropathy by Inhibition of Inflammatory Cytokines and NFκB Signaling	Singh G., Singh A., Singh P., Bhatti R.	ACS Chemical Neuroscience	2019	-	-	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, 143005, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
898	Board composition and corporate reporting on internet: Indian evidence	Sandhu A., Singh B.	Journal of Financial Reporting and Accounting	2019	-	-	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India
899	Role of Gluten in Surface Chemistry: Nanometallic Bioconjugation of Hard, Medium, and Soft Wheat Protein	Mandial D., Khullar P., Gupta V., Kumar H., Singh N., Ahluwalia G.K., Bakshi M.S.	Journal of Agricultural and Food Chemistry	2019	-	-	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
900	Biohythane production in two-stage anaerobic digestion system	Hans M., Kumar S.	International Journal of Hydrogen Energy	2019	-	-	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
901	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	Singla P., Singh O., Sharma S., Betlem K., Aswal V.K., Peeters M., Mahajan R.K.	ACS Omega	2019	-	-	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
902	Chemical, thermal, rheological and FTIR studies of vegetable oils and their effect on eggless muffin characteristics	Kaur A., Singh B., Kaur A., Singh N.	Journal of Food Processing and Preservation	2019	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India; P.G. Department of Biotechnology, Khalsa College, Amritsar, India



903	Effect of infrared roasting on antioxidant activity, phenolic composition and Maillard reaction products of Tartary buckwheat varieties	Bhinder S., Singh B., Kaur A., Singh N., Kaur M., Kumari S., Yadav M.P.	Food Chemistry	2019	-	-	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
904	Enhanced performance of 40Gbit/s-80GHz OFDM based radio over FSO transmission link incorporating mode division multiplexing under strong atmospheric turbulence	Singh M., Malhotra J.	Optoelectronics and Advanced Materials, Rapid Communications	2019	-	-	Electronics and Communication Engineering Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India
905	Formulation and characterization of hpmc and hpmcas based solid dispersions of fenofibrate: A comparative study	Rampal A., Singh M., Mahajan S., Bedi N.	International Journal of Applied Pharmaceutics	2019	-	-	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India
906	A Lightweight User Authentication Scheme for Cloud-IoT Based Healthcare Services	Sharma G., Kalra S.	Iranian Journal of Science and Technology - Transactions of Electrical Engineering	2019	-	-	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab, India
907	Study on interactions of vitamin B1 with sodium dodecyl sulfate for potential food applications: Conductometric, volumetric, calorimetric and spectroscopic approach	Kaur R., Rani A., Banipal P.K., Banipal T.S.	Journal of Molecular Liquids	2019	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India
908	Possible Molecular Mediators Involved and Mechanistic Insight into Fibromyalgia and Associated Co-morbidities	Singh L., Kaur A., Bhatti M.S., Bhatti R.	Neurochemical Research	2019	-	-	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab, India
909	Appraisal of heavy metal contents in groundwater and associated health hazards posed to human population of Ropar wetland, Punjab, India and its environs	Sharma S., Nagpal A.K., Kaur I.	Chemosphere	2019	-	-	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
910	SNA Based Resource Optimization in Optical Network using Fog and Cloud Computing	Sood S.K., Singh K.D.	Optical Switching and Networking	2019	-	-	Department of Computer Science & Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India
911	Factors affecting mortality prototype in murrha buffaloes: A review	Gupta N.M., Mehra M.L., Malhotra P.	Buffalo Bulletin	2019	-	-	Department of Animal Husbandry, Government of Madhya Pradesh, Madhya Pradesh, India; Department of Livestock Farm Complex, Khalsa College of Veterinary and Animal Science, Amritsar, India; Guru Angad Dev Veterinary and Animal Sciences University, Punjab, India
912	Development and description of conceptual model related to employee engagement in organizations	Atwal H., Sandhu V.	International Journal of Engineering and Advanced Technology	2019	-	-	Department of Basic and Applied Sciences, Punjabi University, Patiala, Punjab, India; University Business School, Guru Nanak Dev University, Amritsar, Punjab, India
913	Autonomic fog computing: Towards sustainable and reliable integration of cloud & internet of things	Bohmrah M.K., Kaur H.	International Journal of Innovative Technology and Exploring Engineering	2019	-	-	Department of Computer Science & Engineering, Khalsa College of Engineering & Technology, India; Department of Computer Science & Engineering of Guru Nanak Dev University, India
914	Role of F-spin multiplets in identical band phenomena in normal deformed nuclei	Malik S.S., Mazumdar I.	Nuclear Physics A	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Nuclear and Atomic Physics, Tata Institute of Fundamental Research, Mumbai, 400005, India
915	Substituted 1,3-dioxoisindoline-4-aminoquinolines coupled via amide linkers: Synthesis, antiparasitic and cytotoxic evaluation	Rani A., Legac J., Rosenthal P.J., Kumar V.	Bioorganic Chemistry	2019	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Medicine, University of California, San Francisco, CA, United States
916	Nanofluid-based minimum quantity lubrication (MQL) face milling of inconel 625	Singh P., Dureja J.S., Singh H., Bhatti M.S.	International Journal of Automotive and Mechanical Engineering	2019	-	-	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



917	Oblique modulation of electron acoustic waves in nonextensive plasma	Bansal S., Gill T.S., Aggarwal M.	Physics of Plasmas	2019	-	-	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
918	Kinetic Alfvén solitary waves in a plasma with two-temperature superthermal electron populations: The case of Saturn's magnetosphere	Singh M., Saini N.S., Kourakis I.	Monthly Notices of the Royal Astronomical Society	2019	-	-	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
919	Optimization of process parameters on hydroxymethylfurfural content, diastase and invertase activity of coriander honey	Kamboj R., Sandhu R.S., Kaler R.S.S., Bera M.B., Nanda V.	Journal of Food Science and Technology	2019	-	-	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
920	Construction and analysis of a novel sac-ocdma system with edw coding using direct detection technique	Sarangal H., Singh A., Malhotra J.	Journal of Optical Communications	2019	-	-	Research Scholar, IKG PTU Kapurthala, ECE, Kapurthala, India; Department of ECE, KCET, Amritsar, Punjab, India; Department of Electronics, GNDU RC, Jalandhar, Punjab, India
921	Design, synthesis, anti-mycobacterial and cytotoxic evaluation of C-4 functionalized 1,8-naphthalimide-heterocyclic hydrazide conjugates	Shalini, Johansen M.D., Kremer L., Kumar V.	Chemical Biology and Drug Design	2019	-	-	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
922	Phytohormones regulate accumulation of osmolytes under abiotic stress	Sharma A., Shahzad B., Kumar V., Kohli S.K., Sidhu G.P.S., Bali A.S., Handa N., Kapoor D., Bhardwaj R., Zheng B.	Biomolecules	2019	-	-	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
923	Extent and drivers of CSR disclosure: evidence from Russia	Bhatia A., Makkar B.	Transnational Corporations Review	2019	-	-	University School of Financial Studies, Guru Nanak Dev University, Amritsar, 143005, India
924	Adaptive Neuro Fuzzy Inference System (ANFIS) based wildfire risk assessment	Kaur H., Sood S.K.	Journal of Experimental and Theoretical Artificial Intelligence	2019	-	-	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India
925	Advanced multi-factor user authentication scheme for E-governance applications in smart cities	Sharma G., Kalra S.	International Journal of Computers and Applications	2019	-	-	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, India
926	A study of farthest points and uniquely remotal sets	Sangeeta, Narang T.D.	Journal of Interdisciplinary Mathematics	2019	-	-	Department of Mathematics, Amardeep Singh Shergill Memorial College, Mukandpur, Punjab 144507, India; Department of Mathematics, Guru Nanak Dev University, Amritsar, Punjab 143005, India
927	Phenanthridine-Fused Tetracyclic Ring System: Metal-Free Diastereoselective Modular Construction of Highly Constrained Polyheterocycles via Post-Ugi Tandem Modifications	Singh K., Malviya B.K., Jaiswal P.K., Verma V.P., Chimni S.S., Sharma S.	Organic Letters	2019	-	-	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



928	Flexible and highly sensitive Cl <sub>2</sub> sensor based on solution processed phthalocyanine nanowires	Devi P., Singh R., Sharma S., Sharma S., Mahajan A., Bedi R.K., Saini R.	AIP Conference Proceedings	2019	-	-	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
929	Sensitive and selective hydrogen gas sensor based on Sn doped NiO nanoparticles	Singh S.K.J., Singh R.C.	AIP Conference Proceedings	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
930	Thermal, optical and Raman spectroscopy studies of lithium tellurite glasses containing molybdenum and tungsten ions	Kaur A., Khanna A.	AIP Conference Proceedings	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
931	Study of anti-glass phases in heavy metal oxide tellurite systems	Gupta N., Khanna A.	AIP Conference Proceedings	2019	-	-	Sensors and Glass Lab, Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
932	Gamma-ray and neutron shielding behaviour of CaO-K <sub>2</sub> O-P <sub>2</sub> O <sub>5</sub> glass system modified with Bi <sub>2</sub> O <sub>3</sub>	Kaur P., Singh K.J., Kurudirek M., Thakur S.	AIP Conference Proceedings	2019	-	-	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
933	Sensing performance of rGO/phthalocyanine based hybrid at room temperature	Sharma A.K., Sohal M.K., Singh R.C., Mahajan A.	AIP Conference Proceedings	2019	-	-	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
934	Engineered Substrate for Cyclooxygenase-2: A Pentapeptide Isoconformational to Arachidonic Acid for Managing Inflammation	Kaur B., Kaur M., Kaur N., Garg S., Bhatti R., Singh P.	Journal of Medicinal Chemistry	2019	-	-	Department of Chemistry, Centre for Advanced Studies, Amritsar, 143005, India; Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143005, India
935	Growth of few layered molybdenum disulphide	Prakash O., Mahajan A., Bedi R.K., Saxena V.	AIP Conference Proceedings	2019	-	-	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
936	Thermoluminescence characteristics of gamma induced LiF: Yb <sup>3+</sup> nanophosphor	Kumar A., Kumar A., Dogra R., Sharma S., Kumar R.	AIP Conference Proceedings	2019	-	-	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 Hamirpur 177005 (H.P.), India; Swami Premanand Mahavidyalaya, Mukerian, Punjab, India
937	Synthesis, Characterization and Gas Sensing Properties of Ga-Doped SnO <sub>2</sub> Nanostructures	Singh G., Singh R.C.	Journal of Electronic Materials	2019	-	-	Department of Applied Physics, Chandigarh University, Gharuan, Mohali, Punjab, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
938	Investigation of Magnetic and Microwave Absorption Properties of Ba(1-2x)La <sub>x</sub> NaxFe <sub>10</sub> CoTiO <sub>19</sub> Hexaferrites in 18.0–26.5 GHz Band	Arora A., Narang S.B.	Journal of Superconductivity and Novel Magnetism	2019	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; D.A.V. Institute of Engineering and Technology, Jalandhar, India
939	Dynamic, shear and pasting behaviour of native and octenyl succinic anhydride (OSA) modified wheat starch and their utilization in preparation of edible films	Punia S., Sandhu K.S., Dhull S.B., Kaur M.	International Journal of Biological Macromolecules	2019	-	-	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
940	Edifying role of corporate reputation in new issue market: Indian evidence	Kaur A., Singh B.	Asia-Pacific Journal of Business Administration	2019	-	-	USFS, Guru Nanak Dev University, Amritsar, India; Department of Commerce and Business Management, Guru Nanak Dev University, Amritsar, India
941	Teratogenicity and accumulation of triclosan in the early life stages of four food fish during the bioassay	Dar O.I., Sharma S., Singh K., Kaur A.	Ecotoxicology and Environmental Safety	2019	-	-	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India
942	AIEE Active Nanoassemblies of Pyrazine Based Organic Photosensitizers as Efficient Metal-Free Supramolecular Photoredox Catalytic Systems	Dadwal S., Deol H., Kumar M., Bhalla V.	Scientific reports	2019	-	-	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



943	DNA based cloud storage security framework using fuzzy decision making technique	Majumdar A., Biswas A., Baishnab K.L., Sood S.K.	KSII Transactions on Internet and Information Systems	2019	-	-	National Institute of Technology Silchar Assam, India; Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India
944	Long-Reach High-Capacity Hybrid MDM-OFDM-FSO Transmission Link Under the Effect of Atmospheric Turbulence	Singh M., Malhotra J.	Wireless Personal Communications	2019	-	-	Electronics and Communication Engineering Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India
945	Learning towards failure prediction of high performance computing clusters by employing LSTM	Kaur K., Kaur K.	International Journal of Engineering and Advanced Technology	2019	-	-	Department of Computer Engineering & Technology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Computer Science, Guru Nanak Dev University, Amritsar, Punjab, India
946	Purified winged bean protease inhibitor affects the growth of Bactrocera cucurbitae	Kaur A.P., Sohal S.K.	Bulletin of Entomological Research	2019	-	-	Department of Zoology, Guru Nanak Dev University, Amritsar, 143 005, India
947	Analysis of sum spectrum efficiency in multiple antennas multi-user MIMO cellular system for millimeter wave communications	Kaur J., Singh M.L., Sohal R.S.	Sadhana - Academy Proceedings in Engineering Sciences	2019	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India
948	Elucidating the role of size of hydroxyl apatite particles toward the development of competent antiosteoporotic bioceramic materials: In vitro and in vivo studies	Kaur K., Singh K.J., Anand V., Bhatia G., Singh A.P., Kaur M.	Journal of Biomedical Materials Research - Part A	2019	-	-	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
949	Towards socially enabled internet of industrial things: Architecture, semantic model and relationship management	Gulati N., Kaur P.D.	Ad Hoc Networks	2019	-	-	Department of Computer Science and Engineering, Guru Nanak Dev University, RC, Jalandhar, India
950	Bergapten inhibits chemically induced nociceptive behavior and inflammation in mice by decreasing the expression of spinal PARP, iNOS, COX-2 and inflammatory cytokines	Singh G., Kaur A., Kaur J., Bhatti M.S., Singh P., Bhatti R.	Inflammopharmacology	2019	-	-	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
951	Influence of different milling media on structural, morphological and optical properties of the ZnO nanoparticles synthesized by ball milling process	Singh J., Sharma S., Soni S., Sharma S., Chand Singh R.	Materials Science in Semiconductor Processing	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India
952	Design and analysis of multi-heuristic based solution for task graph scheduling problem	Kaur R., Singh G.	International Journal of Engineering and Advanced Technology	2019	-	-	Department of Computer Science, Guru Nanak Dev University, Amritsar, India; Deptt. of CSE, UIET, Panjab University, India
953	Ameliorative effect of imperatorin in chemically induced fibromyalgia: Role of NMDA/NFkB mediated downstream signaling	Kaur A., Singh L., Singh N., Bhatti M.S., Bhatti R.	Biochemical Pharmacology	2019	-	-	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
954	NMR characterization of conformational fluctuations and noncovalent interactions of SUMO protein from Drosophila melanogaster (dSmt3)	Kaur A., Gourav, Kumar S., Jaiswal N., Vashisht A., Kumar D., Gahlay G.K., Mithu V.S.	Proteins: Structure, Function and Bioinformatics	2019	-	-	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
955	Ni <sub>0.1</sub> CO <sub>0.9</sub> Fe <sub>2</sub> O <sub>4</sub> spinel ferrite as a promising magneto- dielectric substrate for X-band Microstrip Patch Antenna	Pubby K., Bhongale S.R., Vasambekar P.N., Narang S.B.	2019 3rd International Conference on Electronics, Materials Engineering and Nano-Technology, IEMENTech 2019	2019	-	-	Guru Nanak Dev University, Department of Electronics Technology, Amritsar, India; Yashwantrao Chavan Institute of Science, Department of Physics, Satara, India; Shivaji University, Department of Electronics, Kohlapur, India
956	Identification and clinical validation of a novel 4 gene-signature with prognostic utility in colorectal cancer	Ahluwalia P., Mondal A.K., Bloomer C., Fulzele S., Jones K., Ananth S., Gahlay G.K., Heneidi S., Rojiani A.M., Kota V., Kolhe R.	International Journal of Molecular Sciences	2019	-	-	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



957	Modulation of the functional components of growth, photosynthesis, and anti-oxidant stress markers in cadmium exposed Brassica juncea L.	Kapoor D., Singh M.P., Kaur S., Bhardwaj R., Zheng B., Sharma A.	Plants	2019	-	-	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
958	Ignatyuk damping factor: A semiclassical formula	Dwivedi N.R., Monga S., Kaur H., Jain S.R.	International Journal of Modern Physics E	2019	-	-	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; UMDAE Centre for Excellence in Basic Sciences, University of Mumbai, Mumbai, 400 098, India
959	Domain-specific and nonspecific outcomes of work-family interface: A study of Indian journalists	Bhalla A., Kang L.S.	Evidence-based HRM	2019	-	-	University Business School, Guru Nanak Dev University, Amritsar, India; Department of Commerce, Guru Nanak Dev University, Amritsar, India
960	Oblique modulation of electron acoustic waves in superthermal plasma	Bansal S., Gill T.S., Aggarwal M.	Physica Scripta	2019	-	-	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
961	Positron-acoustic nonlinear waves in multicomponent plasmas	Sethi P., Kaur N., Singh K., Singh M., Saini N.S.	AIP Conference Proceedings	2019	-	-	Guru Nanak Dev University, Amritsar, Punjab, 143005, India
962	Nonlinear excitations in a relativistic plasma with non-Maxwellian electrons	Kaur N., Sethi P., Singh M., Singh K., Saini N.S.	AIP Conference Proceedings	2019	-	-	Guru Nanak Dev University, Amritsar, Punjab, 143005, India
963	Three dimensional ion acoustic solitary waves in a magnetized plasma consisting of two temperature nonextensive electrons	Singh M., Singh K., Sethi P., Kaur N., Saini N.S.	AIP Conference Proceedings	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
964	Ion acoustic shocks in degenerate plasma with trapping in a quantizing magnetic field	Singh K., Singh M., Kaur N., Sethi P., Saini N.S.	AIP Conference Proceedings	2019	-	-	Guru Nanak Dev University, Amritsar, Punjab, 143005, India
965	Withania somnifera (L.) Dunal ameliorates neurodegeneration and cognitive impairments associated with systemic inflammation	Gupta M., Kaur G.	BMC Complementary and Alternative Medicine	2019	-	-	Department of Biotechnology, Medical Biotechnology Laboratory, Guru Nanak Dev University Amritsar, Amritsar, Punjab, 143005, India
966	Major Phytoconstituents of Prunus cerasoides Responsible for Antimicrobial and Antibiofilm Potential Against Some Reference Strains of Pathogenic Bacteria and Clinical Isolates of MRSA	Arora D.S., Mahajan H.	Applied Biochemistry and Biotechnology	2019	-	-	Microbial Technology Laboratory, Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India
967	Exploring Temporal Analytics in Fog-Cloud Architecture for Smart Office Health Care	Bhatia M., Sood S.K.	Mobile Networks and Applications	2019	-	-	Guru Nanak Dev University, Regional Campus, Gurdaspur, India
968	Structural, Dielectric, Ferroelectric and Magnetic Properties of (BNT-BT)-NCZF Composites Synthesized by a Microwave- Assisted Solid-State Reaction Route	Nanda D., Kumar P., Samanta B., Sahu R., Singh A.	Journal of Electronic Materials	2019	-	-	Department of Physics and Astronomy, National Institute of Technology, Rourkela, Odisha 769008, India; Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India
969	Interfacial exchange coupling driven magnetic and microwave properties of BaFe 12 O 19 /Ni 0.5 Zn 0.5 Fe 2 O 4 nanocomposites	Pahwa C., Narang S.B., Sharma P.	Journal of Magnetism and Magnetic Materials	2019	-	-	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
970	Enhanced Microwave Absorption Properties of Doped M- Type Barium Hexagonal Ferrites in Ka-band Frequencies	Arora A., Narang S.B., Pubby K.	Journal of Superconductivity and Novel Magnetism	2019	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India; D.A.V. Institute of Engineering and Technology, Jalandhar, India



971	Rational approaches, design strategies, structure activity relationship and mechanistic insights for therapeutic coumarin hybrids	Singh H., Singh J.V., Bhagat K., Gulati H.K., Sanduja M., Kumar N., Kinarivala N., Sharma S.	Bioorganic and Medicinal Chemistry	2019	-	-	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
972	Association of TNF- $\alpha$ gene alterations (c.-238G>A, c.-308G>A, c.-857C>T, c.-863C>A) with primary glaucoma in north Indian cohort	Passan S., Goyal S., Bhat M.A., Singh D., Vanita V.	Gene	2019	-	-	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
973	An outlier in the north success of the Congress in Punjab	Sekhon J.S., Kumar A.	Economic and Political Weekly	2019	-	-	Department of Political Science, Guru Nanak Dev University, Amritsar, India; Department of Political Science, Panjab University, Chandigarh, India
974	Do CEO characteristics explain firm performance in India?	Kaur R., Singh B.	Journal of Strategy and Management	2019	-	-	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India
975	Examining the relationships between political advertisements, party brand personality, voter satisfaction and party loyalty	Kaur H., Sohail S.	Journal of Indian Business Research	2019	-	-	Department of Commerce, Guru Nanak Dev University, Amritsar, India; University School of Financial Studies, Guru Nanak Dev University, Amritsar, India
976	Achieving colossal Kerr nonlinearity via multiphoton atomic coherence in a five-level $\Lambda$ - $\Xi$ system	Kaur A., Kumar S., Kaur P.	Physica Scripta	2019	-	-	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
977	Behavioral and Biochemical Implications of Dendrimeric Rivastigmine in Memory-Deficit and Alzheimer's Induced Rodents	Gothwal A., Singh H., Jain S.K., Dutta A., Borah A., Gupta U.	ACS Chemical Neuroscience	2019	-	-	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
978	High temperature-mediated rocksalt to wurtzite phase transformation in cadmium oxide nanosheets and its theoretical evidence	Das A., Saini C.P., Singh D., Ahuja R., Kaur A., Aliukov S., Shukla D., Singh F.	Nanoscale	2019	-	-	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
979	Unveiling the tunneling phenomena in graphene-graphene homo-junctions for emerging device applications	Kaur A., Singh R.C.	Journal of Physics Condensed Matter	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
980	Effect of pH on the structural, optical and gas sensing properties of nickel oxide	Shailja K.J.S., Singh R.C.	AIP Conference Proceedings	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
981	Investigation of polymethyl methacrylate incorporated neodymium oxide for gamma-ray and neutron shielding behaviour	Thakur S., Kaur P., Singh L.	AIP Conference Proceedings	2019	-	-	Department of Physics, Guru Nanak Dev University College Verka, Punjab, Amritsar, 143501, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
982	Effect of iron ion implantation dose on optical and structural properties of CdS nanowires	Kaur J., Singh R.C.	AIP Conference Proceedings	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, India
983	Influence of some polymers on micellization behavior of sodium caprylate and cetyl pyridinium chloride	Sood A.K.	AIP Conference Proceedings	2019	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar (Ph.), 143 005, India
984	Sonication assisted graphene exfoliation for preparation of conductive inks	Kaur A., Singh R.C.	AIP Conference Proceedings	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
985	Evaluation of bone regeneration ability of 42SiO <sub>2</sub> -37CaO- 10P <sub>2</sub> O <sub>5</sub> -6MnO-5ZnO bioceramic composition	Sarin N., Singh K.J., Kaur R., Singh J., Kaur P.	AIP Conference Proceedings	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Molecular Biology & Biochemistry, Guru Nanak Dev University, Amritsar, 143005, India



986	Propagation characteristics of non-Gaussian laser beam in a plasma with density ramp using Moment Theory Approach	Pathak N., Kaur P., Agrawal P.C., Kaur S.	AIP Conference Proceedings	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Regional Institute of Education, Bhubaneswar, 751022, India
987	Effect of different fuel combination on structure and properties of M type hexaferrite BaZn <sub>0.2</sub> Zr <sub>0.2</sub> Fe <sub>11.6</sub> O <sub>19</sub>	Kumar S.G., Kaur V., Sood A.K., Bhadu G.R., Chaudhari J.C., Narang S.B.	AIP Conference Proceedings	2019	-	-	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
988	Assessment of the gamma-radiation and neutron shielding ability of Sb <sub>2</sub> O <sub>3</sub> -WO <sub>3</sub> -PbO-Na <sub>2</sub> O glass system	Kaur P., Singh K.J., Thakur S., Sarin N.	AIP Conference Proceedings	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Physics, Guru Nanak Dev University, College Verka, Amritsar, Punjab, 143501, India
989	Secure and efficient ECC based SIP authentication scheme for VoIP communications in internet of things	Dhillon P.K., Kalra S.	Multimedia Tools and Applications	2019	-	-	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Jalandhar, Punjab 144001, India
990	Microwave filter characteristics of ferrite and polyaniline composites from 8.2 to 12.4 GHz	Singh C., Bai Y., Narang S.B., Sombra A.S.B., Mishra S.R., Jotania R., Khanna R., Trukhanov S.V., Trukhanov A.V., Ghimire M.	Journal of Materials Science: Materials in Electronics	2019	-	-	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, Ceará, 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
991	A survey of genetic algorithm based load balancing techniques for task graph scheduling problem in distributed environment	Kaur R., Singh G.	International Journal of Scientific and Technology Research	2019	-	-	Deptt. Computer Science & Engineering, Guru Nanak Dev University, India
992	Nonlinear excitations in a degenerate relativistic magneto-rotating quantum plasma	Singh K., Sethi P., Saini N.S.	Physics of Plasmas	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
993	Optical fog-assisted smart learning framework to enhance students' employability in engineering education	Sood S.K., Singh K.D.	Computer Applications in Engineering Education	2019	-	-	Department of Computer Science & Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India
994	Performance investigation of high-speed FSO transmission system under the influence of different atmospheric conditions incorporating 3-D orthogonal modulation scheme	Singh M., Malhotra J.	Optical and Quantum Electronics	2019	-	-	Electronics and Communication Engineering Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India
995	Genome-wide analysis of cyclophilin gene family in wheat and identification of heat stress responsive members	Singh H., Kaur K., Singh S., Kaur P., Singh P.	Plant Gene	2019	-	-	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Bioinformatics, Hans Raj Mahila Maha Vidyalaya, Jalandhar, Punjab 144008, India
996	DDOS attack detection and handling mechanism in WSN	Dogra A., Kaur T.	International Journal of Recent Technology and Engineering	2019	-	-	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
997	Goods and services tax: Issues and challenges in India	Sandhu V., Atwal H.	International Journal of Recent Technology and Engineering	2019	-	-	University Business School, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Basic and Applied Sciences, Punjabi University, Patiala, Punjab, India





998	Detecting intrusion with high accuracy: Using hybrid K-Multi layer perceptron	Dogra A., Taqdir	International Journal of Recent Technology and Engineering	2019	-	-	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
999	Hybrid Type-2 Fuzzy Based Channel Estimation for MIMO- OFDM System with Doppler Offset Influences	Kaur H., Khosla M., Sarin R.K.	Wireless Personal Communications	2019	-	-	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
1000	Bioefficacy of Hexane Extract of <i>Inula racemosa</i> (Asteraceae) Against <i>Spodoptera litura</i> (Lepidoptera: Noctuidae) [Biotwirksamkeit des Hexanextrakts aus <i>Inula racemosa</i> (Asteraceae) gegen <i>Spodoptera litura</i> (Lepidoptera: Noctuidae)]	Kaur M., Saraf I., Kumar R., Singh I.P., Kaur S.	Gesunde Pflanzen	2019	-	-	Guru Nanak Dev University, Department of Zoology, Amritsar, Punjab 143005, India; Department of Natural Products, National Institute of Pharmaceutical Education and Research (NIPER), S.A.S Nagar, Punjab 160062, India
1001	Structural, dielectric and electrical properties of Fe doped La <sub>0.7</sub> Ba <sub>0.3</sub> MnO <sub>3</sub> solid solutions for cathode materials	Paul S., Manokamna, Kaur S., Malhi P.S., Singh A., Kumar A.	International Journal of Recent Technology and Engineering	2019	-	-	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
1002	Sensors based automotive vehicle for the detection of fuel level	Kalsi P., Singh H.	International Journal of Innovative Technology and Exploring Engineering	2019	-	-	Lovely Professional University Punjab, India; Guru Nanak Dev University Punjab, India; Punjab Technical University Punjab, India
1003	Modification of Moth Bean Starch Using Mixture of Organic Acids under Dry Heating	Singh H., Punia R., Ganesh A., Duttgupta A., Kaur A., Blennow A.	Starch/Staerke	2019	-	-	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
1004	Effect of debranning on grains and meal characteristics of different Indian and exotic wheat varieties	Katyal M., Singh N., Virdi A.S., Kaur A., Chopra N., Agarwal S., Roy J.K.	Food Research International	2019	-	-	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
1005	In Silico Evaluation of Variable pH on the Binding of Epidermal Growth Factor Receptor Ectodomain to its Ligand Through Molecular Dynamics Simulation in Tumors	Singh I., Singh G., Verma V., Singh S., Chandra R.	Interdisciplinary Sciences: Computational Life Sciences	2019	-	-	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
1006	Resveratrol loaded functionalized nanostructured lipid carriers for breast cancer targeting: Systematic development, characterization and pharmacokinetic evaluation	Poonia N., Kaur Narang J., Lather V., Beg S., Sharma T., Singh B., Pandita D.	Colloids and Surfaces B: Biointerfaces	2019	-	-	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



1007	Protective effect of high levels of TGF- $\beta$ 1 cytokine and its corresponding allele at C-509T locus in Punjabi ESRD population	Gupta V., Kumar A., Chaudhary M., Sehajpal P.K.	Meta Gene	2019	-	-	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
1008	Theoretical analysis of planar and non-planar electron - acoustic shock waves in electron-positron-ion plasma	Bansal S., Aggarwal M., Gill T.S.	Contributions to Plasma Physics	2019	-	-	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
1009	Supplementation with plant growth promoting rhizobacteria (PGPR) alleviates cadmium toxicity in Solanum lycopersicum by modulating the expression of secondary metabolites	Khanna K., Jamwal V.L., Sharma A., Gandhi S.G., Ohri P., Bhardwaj R., Al-Huqail A.A., Siddiqui M.H., Ali H.M., Ahmad P.	Chemosphere	2019	-	-	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
1010	Evaluating the service quality of solar product companies using SERVQUAL model	Kumar V., Hundal B.S.	International Journal of Energy Sector Management	2019	-	-	University Business School, Guru Nanak Dev University, Amritsar, India
1011	Factors affecting consumer buying behaviour of solar water pumping system	Kumar V., Hundal B.S., Kaur K.	Smart and Sustainable Built Environment	2019	-	-	University Business School, Guru Nanak Dev University, Amritsar, India; University Business School, Punjab University, Chandigarh, India
1012	AIEE Active Supramolecular Metallic Ensemble as "turn-On" Platform for Detection of Creatinine in Human Blood Serum at Picomolar Level	Kaur K., Kataria M., Kaur M., Sood A.K., Kumar M., Bhalla V.	ACS Sustainable Chemistry and Engineering	2019	-	-	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
1013	An optimal topology selection for power recharging model in wireless sensor networks)	Angurala M., Bala M., Bamber S.S.	International Journal of Advanced Science and Technology	2019	-	-	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
1014	Effect of Caffeine on the Physicochemical Properties of Neurotransmitter GABA: Thermodynamic and Theoretical Approach	Kaur N., Sharma P., Banipal T.S., Banipal P.K., Aggarwal N.	Journal of Chemical and Engineering Data	2019	-	-	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
1015	Click-chemistry approach to synthesis of functionalized isatin- ferrocenes and their biological evaluation against the human pathogen Trichomonas vaginalis	Singh A., Zhang D., Tam C.C., Cheng L.W., Land K.M., Kumar V.	Journal of Organometallic Chemistry	2019	-	-	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



1016	Castasterone attenuates insecticide induced phytotoxicity in mustard	Sharma A., Yuan H., Kumar V., Ramakrishnan M., Kohli S.K., Kaur R., Thukral A.K., Bhardwaj R., Zheng B.	Ecotoxicology and Environmental Safety	2019	-	-	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
1017	Enhanced hydrolysis of lignocellulosic biomass with doping of a highly thermostable recombinant laccase	Rai R., Bibra M., Chadha B.S., Sani R.K.	International Journal of Biological Macromolecules	2019	-	-	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
1018	Heat-Transfer Method: A Thermal Analysis Technique for the Real-Time Monitoring of Staphylococcus aureus Growth in Buffered Solutions and Digestate Samples	Betlem K., Kaur A., Hudson A.D., Crapnell R.D., Hurst G., Singla P., Zubko M., Tedesco S., Banks C.E., Whitehead K., Peeters M.	ACS Applied Bio Materials	2019	-	-	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
1019	Effect of the Alkyl Chain Length of Amphiphilic Ionic Liquids on the Structure and Dynamics of Model Lipid Membranes	Kumar S., Scheidt H.A., Kaur N., Kang T.S., Gahlay G.K., Huster D., Mithu V.S.	Langmuir	2019	-	-	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
1020	Low temperature processable ultra-thin WO <sub>3</sub> Langmuir-Blodgett film as excellent hole blocking layer for enhanced performance in dye sensitized solar cell	Prakash O., Saxena V., Choudhury S., Tanvi, Singh A., Debnath A.K., Mahajan A., Muthe K.P., Aswal D.K.	Electrochimica Acta	2019	-	-	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
1021	Hierarchy of Commonly Used DFT Methods for Predicting the Thermochemistry of Rh-Mediated Chemical Transformations	Shiekh B.A.	ACS Omega	2019	-	-	Department of Chemistry, UGC Sponsored Centre of Advanced Studies-II, Guru Nanak Dev University, Amritsar, 143005, India
1022	Impact of packaging materials and different chemicals on storage and shelf life of pear cv. Punjab beauty	Kaur A., Kaur M.	International Journal of Advanced Science and Technology	2019	-	-	Department of Horticulture (Agriculture) Khalsa College, Guru Nanak Dev University, Amritsar, India
1023	Isolation and characterization of arabinoxylans from wheat bran and study of their contribution to wheat flour dough rheology	Kaur A., Yadav M.P., Singh B., Bhinder S., Simon S., Singh N.	Carbohydrate Polymers	2019	-	-	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
1024	Perinatal hypoxia diagnostic system by using scalable machine learning algorithms	Kaur H., Khullar V., Singh H.P., Bala M.	International Journal of Innovative Technology and Exploring Engineering	2019	-	-	CT Institute of Engineering Management and Technology, Jalandhar, India; Khalsa College of Engineering and Technology, Amritsar, India



1025	Mobile Network Architecture for Emergency Rescue Services in the Smart City	Priya M., Malhotra J.	Proceedings - 2019 International Conference on Computing, Communication, and Intelligent Systems, ICC CIS 2019	2019	-	-	GNDU Regional Campus, Department of Electronics and Communication Engineering, Jalandhar, India; GNDU Regional Campus, Department of Engineering and Technology, Jalandhar, India
1026	Estimation of back strength, hip circumference and buttock knee length and its correlation with explosive power in indian state and national level gymnasts	Kaur K., Koley S.	International Journal of Advanced Science and Technology	2019	-	-	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
1027	Post-independence institutional efforts in planned housing development in Amritsar (Punjab, India)	Kaur G., Luthra A.	International Journal of Engineering and Advanced Technology	2019	-	-	Guru Ramdas School of Planning, Guru Nanak Dev University, Amritsar, India
1028	A secure multifactor remote user authentication scheme for Internet of Multimedia Things environment	Dhillon P.K., Kalra S.	International Journal of Communication Systems	2019	-	-	Department of Computer Science and Engineering, Guru Nanak Dev University Regional Campus, Jalandhar, Punjab, India
1029	Mixed valence effect of Se <sup>6+</sup> and Zr <sup>4+</sup> on structural, thermal, physical, and optical properties of B <sub>2</sub> O <sub>3</sub> -Bi <sub>2</sub> O <sub>3</sub> -SeO <sub>2</sub> -ZrO <sub>2</sub> glasses	Thakur S., Kaur A., Singh L.	Optical Materials	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab 143005, India
1030	Plasmodium helical interspersed subtelomeric family—an enigmatic piece of the Plasmodium biology puzzle	Kumar V., Behl A., Sharma R., Sharma A., Hora R.	Parasitology Research	2019	-	-	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India
1031	Structural tuning of acridones for developing anticancer agents targeting dihydrofolate reductase	Singh H., Kaur M., Kaur H., Sharma I., Bhandari A., Kaur G., Singh P.	Bioorganic and Medicinal Chemistry Letters	2019	-	-	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
1032	Amelioration of hepatic function, oxidative stress, and histopathologic damages by Cassia fistula L. fraction in thioacetamide-induced liver toxicity	Kaur S., Sharma D., Singh A.P., Kaur S.	Environmental Science and Pollution Research	2019	-	-	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
1033	Toxicity assessment of chlorpyrifos on different organs of rat: exploitation of microbial-based enzymatic system for neutralization	Sharma S., Singh P., Chadha P., Saini H.S.	Environmental Science and Pollution Research	2019	-	-	Department of Zoology, Guru Nanak Dev University, Amritsar, 143 005, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, 143 005, India
1034	Reduction of hexavalent chromium (VI) by indigenous alkaliphilic and halotolerant Microbacterium sp. M5: comparative studies under growth and nongrowth conditions	Kumar M., Saini H.S.	Journal of Applied Microbiology	2019	-	-	Department of Microbiology, Guru Nanak Dev University, Amritsar, India
1035	Combined mild and hard novel fabrication approach for nanoporous membrane	Walia G.S., Singh H., Kaur J., Kushwaha M.K., Singh A., Saini N.S.	Journal of the Brazilian Society of Mechanical Sciences and Engineering	2019	-	-	Guru Nanak Dev University, Amritsar, Punjab, India; Shaheed Bhagat Singh State Technical Campus, Ferozepur, Punjab, India
1036	Role of quantum phase transition in spontaneous fission	Malik S.S., Mazumdar I.	Nuclear Physics A	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Nuclear and Atomic Physics, Tata Institute of Fundamental Research, Mumbai, 400005, India
1037	CX3CL1 binding protein-2 (CBP2) of Plasmodium falciparum binds nucleic acids	Saxena R., Kaur J., Hora R., Singh P., Singh V., Mishra P.C.	International Journal of Biological Macromolecules	2019	-	-	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



1038	Osthole ameliorates neurogenic and inflammatory hyperalgesia by modulation of iNOS, COX-2, and inflammatory cytokines in mice	Singh G., Bhatti R., Mannan R., Singh D., Kesavan A., Singh P.	Inflammopharmacology	2019	-	-	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
1039	Microstructure of Ni-Cr-Based Coating for Corrosive Conditions	Singh H., Kalsi S.B.S., Sidhu T.S., Dhulka M.P.S., Singh D.P., Saini N.P.S.	Journal of Thermal Spray Technology	2019	-	-	Guru Nanak Dev University, Amritsar, Punjab, India; I.K. Gujral Punjab Technical University, Kapurthala, Punjab, India; Shaheed Bhagat Singh State Technical Campus, Ferozepur, India
1040	Microbial fortification improved photosynthetic efficiency and secondary metabolism in lycopersicon esculentum plants under cd stress	Khanna K., Kohli S.K., Ohri P., Bhardwaj R., Al-Huqail A.A., Siddiqui M.H., Alosaimi G.S., Ahmad P.	Biomolecules	2019	-	-	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
1041	New indices regarding the dominance and diversity of communities, derived from sample variance and standard deviation	Thukral A.K., Bhardwaj R., Kumar V., Sharma A.	Heliyon	2019	-	-	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
1042	Quantum-based predictive fog scheduler for IoT applications	Bhatia M., Sood S.K., Kaur S.	Computers in Industry	2019	-	-	Department of Computer Science and Engineering, Lovely Professional University, Punjab, India; Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus Gurdasur, India; Amritsar College of Engineering and Technology, Amritsar, India
1043	A review on bioprocessing of paddy straw to ethanol using simultaneous saccharification and fermentation	Hans M., Kumar S., Chandel A.K., Polikarpov I.	Process Biochemistry	2019	-	-	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
1044	Study of Uranium in Drinking Water around the Sohna Fault Line in Haryana	Chahal A., Kumar S., Panghal A., Kumar A., Singh J., Singh P., Bajwa B.S.	Journal of the Geological Society of India	2019	-	-	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
1045	Isolation of phytochemicals from Bauhinia variegata L. Bark and their in vitro antioxidant and cytotoxic potential	Sharma N., Sharma A., Bhatia G., Landi M., Brestic M., Singh B., Singh J., Kaur S., Bhardwaj R.	Antioxidants	2019	-	-	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



1046	Bandstop Passive Filter Characteristics of Hexagonal Ferrite Composites at X-Band	Singh C., Bai Y., Narang S.B., Mishra S.R., Singh D., Sombra A.S.B., Jotania R., Trukhanov S.V., Trukhanov A.V., Ghimire M., Kagdi A.	Journal of Electronic Materials	2019	-	-	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 Prospekt, 76, Chelyabinsk, 454080, Russian Federation
1047	Small polaron hopping-assisted electrical conduction and relaxation in BCT and Mn-doped BCT samples	Chawla A., Singh A., Singh M., Malhi P.S.	Journal of Asian Ceramic Societies	2019	-	-	Material Science and Characterization Laboratory, Department of Physics, Guru Nanak Dev University, Amritsar, India; Department of Chemistry, Guru Nanak Dev University, Amritsar, India
1048	Development and validation of RP-HPLC method for the determination of stigmasterol in the botanical extract of Ficus deltoidea	Mukhtar H.M., Singh A., Soni V., Singh A., Kaur H.	Natural Product Research	2019	-	-	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
1049	Microsponges enriched gel for enhanced topical delivery of 5 fluorouracil	Jain S.K., Kaur M., Kalyani P., Mehra A., Kaur N., Panchal N.	Journal of Microencapsulation	2019	-	-	Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, India
1050	Insights into biological properties of less explored bark of industrially important Acacia catechu Willd	Kumar R., Mahey S., Arora R., Mahajan J., Kumar V., Arora S.	Industrial Crops and Products	2019	-	-	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
1051	Optimization of machining parameters under MQL turning of Ti-6Al-4V alloy with textured tool using multi-attribute decision-making methods	Singh R., Dureja J.S., Dogra M., Randhawa J.S.	World Journal of Engineering	2019	-	-	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
1052	Tunable M-type nano barium hexaferrite material by Zn <sup>2+</sup> /Zr <sup>4+</sup> co-doping	Kumar Godara S., Kaur V., Narang S.B., Singh M., Bhadu G.R., Chaudhari J.C., Mudsainiyan R.K., Sood A.K.	Materials Research Express	019	-	-	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



1053	Neutrino-driven Instability of Ion Acoustic Waves in an Ultrarelativistic Degenerate Plasma	Ghai Y., Saini N.S., Eliasson B.	Astrophysical Journal	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India; SUPA, Department of Physics, University of Strathclyde, Glasgow, G4ONG, United Kingdom
1054	Impact of time delay in a forest biomass model in the presence of export and industry	Pal Kaur R.	International Journal of Advanced Science and Technology	2019	-	-	I.K. Gujral Technical University, Kapurthala, Punjab, India; P.G. Department of Mathematics, Khalsa College Amritsar Punjab, India
1055	Impact of virus in a resource biomass model with industry	Kaur R.P.	International Journal of Advanced Science and Technology	2019	-	-	I.K. Gujral Technical University, Kapurthala, Punjab, India; P.G. Department of Mathematics, Khalsa College, Amritsar, Punjab, India
1056	Impact of industry and export on the biomass resources	Kaur R.P.	International Journal of Advanced Science and Technology	2019	-	-	I.K. Gujral Technical University, Kapurthala, Punjab, India; P.G. Department of Mathematics, Khalsa College, Amritsar, Punjab, India
1057	Semiclassical description of $\alpha$ - Radioactivity in even-even nuclei	Monga S., Dwivedi N.R., Pathak D., Kaur H., Jain S.R.	Journal of Physics G: Nuclear and Particle Physics	2019	-	-	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
1058	Indian students' attitude toward educational debt: scale development and validation	Kaur J., Arora S.	Quality Assurance in Education	2019	-	-	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India
1059	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	Suri K., Singh B., Kaur A., Yadav M.P., Singh N.	Food Chemistry	2019	-	-	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
1060	Purification of a trypsin inhibitor from <i>Psoralea corylifolia</i> seeds and its influence on developmental physiology of <i>Bactrocera cucurbitae</i>	Samiksha, Singh D., Kesavan A.K., Sohal S.K.	International Journal of Biological Macromolecules	2019	-	-	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
1061	Fog-assisted IoT-enabled scalable network infrastructure for wildfire surveillance	Kaur H., Sood S.K.	Journal of Network and Computer Applications	2019	-	-	Department of Computer Science and Engineering, Guru Nanak Dev University, Regional Campus, Gurdaspur, Punjab, India
1062	Effects of doping of trivalent ions on glass and anti-glass phases of Bi <sub>2</sub> O <sub>3</sub> -Nb <sub>2</sub> O <sub>5</sub> -TeO <sub>2</sub> system	Gupta N., Khanna A., Barriuso M.G., González F.	Journal of Non-Crystalline Solids	2019	-	-	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
1063	The costs and benefits of going beyond the call of duty	Kaur N., Kang L.S.	International Journal of Productivity and Performance Management	2019	-	-	University School of Financial Studies, Guru Nanak Dev University, Amritsar, India
1064	Correlation among lattice strain, defect formation and luminescence properties of transition metal doped ZnO nano crystals prepared via low temperature technique	Kaur P., Kriti, Kaur S., Arora D., Rahul, Kandasami A., Singh D.P.	Materials Research Express	2019	-	-	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
1065	Revisiting the role of relationship benefits in online retail	Soni P.	Marketing Intelligence and Planning	2019	-	-	Department of Commerce and Business Management, Guru Nanak Dev University, Amritsar, India
1066	Recent Developments in Heterogeneous Catalyzed Epoxidation of Styrene to Styrene Oxide	Batra M.S., Dwivedi R., Prasad R.	ChemistrySelect	2019	-	-	School of Chemical Sciences, Devi Ahilya University Takshashila Campus, Khandwa Road, Indore, 452001, India; Post-Graduate Department of Chemistry, Khalsa College, Amritsar, Punjab, India



1067	Investigation of structural, hysteresis and electromagnetic parameters for microwave absorption application in doped Ba–Sr hexagonal ferrites at X-band	Kaur H., Marwaha A., Singh C., Narang S.B., Jotania R., Jacobo S., Sombra A.S.B., Trukhanov S.V., Trukhanov A.V., Dhruv P.	Journal of Alloys and Compounds	2019	-	-	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 Prospect, 76, Chelyabinsk, 454080, Russian Federation
1068	Global distribution of earthworm diversity	Phillips H.R.P., Guerra C.A., Bartz M.L.C., Briones M.J.I., Brown G., Crowther T.W., Ferlian O., Gongalsky K.B., Van Den Hoogen J., Krebs J., Orgiazzi A., Routh D., Schwarz B., Bach E.M., Bennett J., Brose U., Decaëns T., König-Ries B., Loreau M., Mathieu J., Mulder C., Van Der Putten W.H., Ramirez K.S., Rillig M.C., Russell D., Rutgers M., Thakur M.P., De Vries F.T., Wall D.H., Wardle D.A., Arai M., Ayuke F.O., Baker G.H., Beauséjour R., Bedano J.C., Birkhofer K., Blanchart E., Blossey B., Bolger T., Bradley R.L., Callahan M.A., Capowiez Y., Caulfield M.E., Choi A., Crotty F.V., Dávalos A., Cosin D.J.D., Dominguez A., Duhour A.E., Van Eekeren N., Emmerling C., Falco L.B., Fernández R., Fonte S.J., Frago C., Franco A.L.C., Fugère M., Fusilero A.T., Gholami S., Gundale M.J., Lopez M.G., Hackenberger D.K., Hernández L.M., Hishi T., Holdsworth A.R.,	Science	2019	-	-	German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig, 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 Ecología 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, Wageningen University and Research, Wageningen, 6708 PB, Netherlands; Berlin-Brandenburg Institute of Advanced Biodiversity Research (BBIB), Berlin, 14195, Germany; Institute of Biology, Freie Universität Berlin, Berlin, 14195, Germany; Department of Soil Zoology,





1069	Study of existing cloud data storage techniques with respect to optimized duplication: Deduplication	Chhabra N., Bala M.	International Journal of Advanced Science and Technology	2019	-	-	I. K. Gujral Punjab Technical University, Kapurthala, Punjab, India; Khalsa College of Engineering & Technology, Amritsar, Punjab, India
1070	Investigation of structural and optical properties of pure and zinc doped CuO nanoparticles	Singh G.P., Singh J., Singh R.C., Singh K.J.	AIP Conference Proceedings	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
1071	Oxidative stress mitigation and initiation of antioxidant and osmoprotectant responses mediated by ascorbic acid in Brassica juncea L. subjected to copper (II) stress	Sharma R., Bhardwaj R., Thukral A.K., Al-Huqail A.A., Siddiqui M.H., Ahmad P.	Ecotoxicology and Environmental Safety	2019	-	-	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
1072	Psychometric properties of multidimensional scale of perceived social support (MSPSS): Indian adaptation	Kaur K., Beri N.	International Journal of Scientific and Technology Research	2019	-	-	Khalsa College of Education, Ranjit Avenue, Amritsar, India; Lovely Professional University, Phagwara, India
1073	Security concerns in cloud computing: Analysis and solution	Attri J., Kaur P.	International Journal of Innovative Technology and Exploring Engineering	2019	-	-	Guru Nanak Dev University, Amritsar, India; Department of Computer Engineering and Technology, Guru Nanak Dev University, Amritsar, India
1074	The evolution of rogue wave triplets and super rogue waves in superthermal polarized space dusty plasma	Singh K., Saini N.S.	Physics of Plasmas	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
1075	Azolla pinnata, Aspergillus terreus, and Eisenia fetida for fasterrecycling of nutrients from wheat straw	Arora M., Kaur A.	Environmental Science and Pollution Research	2019	-	-	Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab 143005, India
1076	Characterization of thermo-mechanical behavior of dough and starch digestibility profile of minor millet flat breads	Sharma B., Gujral H.S.	Journal of Cereal Science	2019	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India
1077	Functional properties and dynamic rheology of protein isolates extracted from male and female common carp (Cyprinus carpio) muscle subjected to pH-shifting method	Singh K., Singh N., Kaur A., Viridi A.S., Dar O.I., Sharma S.	Journal of Food Processing and Preservation	2019	-	-	Department of Zoology, Guru Nanak Dev University, Amritsar, India; Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, India
1078	Tailoring the structural, electrical, optical and wettability properties of ZnSe films by oblique angle thermal evaporation	Jain R.K., Kaur J., Khanna A., Chawla A.K.	Materials Research Express	2019	-	-	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
1079	Highly sensitive and selective liquefied petroleum gas sensor based on novel ZnO–NiO heterostructures	Singh G., Singh R.C.	Journal of Materials Science: Materials in Electronics	2019	-	-	Department of Applied Physics, Chandigarh University, Gharuan, Mohali, India; Department of Physics, Guru Nanak Dev University, Amritsar, 143005, India
1080	Non-paraxial theory of self-focusing/defocusing of Hermite cosh Gaussian laser beam in rippled density plasmas	Pathak N., Kaur M., Kaur S., Gill T.S.	Contributions to Plasma Physics	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India; Government Middle School, Raunt, Punjab, India
1081	Mixed Micellar and Interfacial Studies of Triblock Copolymers with Amphiphilic Drug Ibuprofen in Aqueous Urea Solutions	Sood A.K., Aggarwal M.	Journal of Surfactants and Detergents	2019	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143 005, India; Department of Mathematics, DAV College, Amritsar, Punjab 143 001, India
1082	Structural effect of SWCNTs grown by PECVD towards NH <sub>3</sub> gas sensing and field emission properties	Lone M.Y., Kumar A., Ansari N., Husain S., Zulfeqar M., Singh R.C., Husain M.	Materials Research Bulletin	2019	-	-	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
1083	Effect of Fe substitution on the structural, electrical and dielectric properties of La <sub>0.70</sub> Ca <sub>0.30</sub> MnO <sub>3</sub> cathode for SOFCs	Paul S., Manokamna, Kaur S., Malhi P.S., Singh A., Kumar A.	International Journal of Innovative Technology and Exploring Engineering	2019	-	-	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



1084	Effect of positron density and temperature on the electron acoustic waves in a magnetized dissipative plasma	Bansal S., Aggarwal M., Gill T.S.	Contributions to Plasma Physics	2019	-	-	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
1085	Physicochemical, pasting, and thermal properties of starches isolated from different adzuki bean ( <i>Vigna angularis</i> ) cultivars	Yadav U., Singh N., Arora S., Arora B.	Journal of Food Processing and Preservation	2019	-	-	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
1086	Development of qos optimized routing using artificial bee colony and tabu-ga with a mobile base station in wireless sensor network	Varsha, Bala M., Kumar M., Kumar N.	International Journal of Innovative Technology and Exploring Engineering	2019	-	-	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
1087	Variedly connected 1,8-naphthalimide-7-chloroquinoline conjugates: Synthesis, anti-mycobacterial and cytotoxic evaluation	Shalini, Johansen M.D., Kremer L., Kumar V.	Bioorganic Chemistry	2019	-	-	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
1088	Impact of high pressure processing on the rheological, thermal and morphological characteristics of mango kernel starch	Kaur M., Punia S., Sandhu K.S., Ahmed J.	International Journal of Biological Macromolecules	2019	-	-	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
1089	Impact of plant growth promoting rhizobacteria in the orchestration of <i>Lycopersicon esculentum</i> mill. Resistance to plant parasitic nematodes: A metabolomic approach to evaluate defense responses under field conditions	Khanna K., Sharma A., Ohri P., Bhardwaj R., Abd-Allah E.F., Hashem A., Ahmad P.	Biomolecules	2019	-	-	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
1090	Jasmonic acid application triggers detoxification of lead (Pb) toxicity in tomato through the modifications of secondary metabolites and gene expression	Bali S., Jamwal V.L., Kohli S.K., Kaur P., Tejpal R., Bhalla V., Ohri P., Gandhi S.G., Bhardwaj R., Al-Huqail A.A., Siddiqui M.H., Ali H.M., Ahmad P.	Chemosphere	2019	-	-	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



1091	Tetrabromobisphenol A induced oxidative stress and genotoxicity in fish <i>Channa punctatus</i>	Sharma P., Chadha P., Saini H.S.	Drug and Chemical Toxicology	2019	-	-	Department of Zoology, Guru Nanak Dev University, Amritsar, India; Department of Microbiology, Guru Nanak Dev University, Amritsar, India
1092	Entropically Favoured Assembly of Pyrazine-Based Helical Fibers into Superstructures: Achiral/ Chiral Guest-Induced Chirality Transformation	Sharma S., Kataria M., Kumar M., Bhalla V.	Angewandte Chemie - International Edition	2019	-	-	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab 143005, India
1093	A perylenediimide based 'on-off' chemosensor for the detection of nucleoside triphosphates: An efficient ensemble for monitoring alkaline phosphatase activity	Mittal L.S., Sharma P., Kaur N., Singh P.	Analytical Methods	2019	-	-	Department of Chemistry, MG DAV College, Bathinda, 151001, India; Department of Chemistry, UGC Centre of Advanced Studies-II, Guru Nanak Dev University, Amritsar, India
1094	Neck circumference: A reliable indicator of the percent body fat in young male and female adults	Dhillon D.K., Koley S.	International Journal of Advanced Science and Technology	2019	-	-	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
1095	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	Ravindra K., Singh T., Mor S., Singh V., Mandal T.K., Bhatti M.S., Gahlawat S.K., Dhankhar R., Mor S., Beig G.	Science of the Total Environment	2019	-	-	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
1096	Impact of Aromatic Counter-Ions Charge Delocalization on the Micellization Behavior of Surface-Active Ionic Liquids	Singh O., Singla P., Aswal V.K., Mahajan R.K.	Langmuir	2019	-	-	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
1097	Fabrication of a Hydrazone-Based Al(III)-Selective "turn-On" Fluorescent Chemosensor and Ensuing Potential Recognition of Picric Acid	Sharma S., Dubey G., Sran B.S., Bharatam P.V., Hundal G.	ACS Omega	2019	-	-	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
1098	Effect of Starting Mn Precursor on the Structural and Ferroelectric Properties of BCT Based Solid Solutions	Chawla A., Kumar S., Singh A., Malhi P.S., Sharma S., Singh M.	Integrated Ferroelectrics	2019	-	-	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
1099	Effect of Diamagnetic Ion Substitution on Structural and Magnetic Properties of Nd <sup>3+</sup> Modified Solid Solutions	Kumar A., Sharma P., Kumar S., Singh A., Kundu R.S., Punia R.	Integrated Ferroelectrics	2019	-	-	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



1100	Synthesis, In Silico Molecular Docking, ADME Evaluation and In Vitro Antiplasmodial Activity of Pyrimidine-Based Hybrid Molecules	Chopra R., Singh L., Chibale K., Singh K.	ChemistrySelect	2019	-	-	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
1101	Theoretical Approach towards the Investigation of Linear and Second-Order Nonlinear Optical Behavior of Ferrocene-Diketopyrrolopyrrole Dyads	Kaur S., Kaur P., Singh K.	ChemistrySelect	2019	-	-	Department of Chemistry, UGC Centre for Advanced Studies II, Guru Nanak Dev University, Amritsar Punjab 143005, India
1102	Influence of nutritional and antinutritional components on dough rheology and in vitro protein & starch digestibility of minor millets	Sharma B., Gujral H.S.	Food Chemistry	2019	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India
1103	CTAB Surfactant Assisted and High pH Nano-Formulations of CuO Nanoparticles Pose Greater Cytotoxic and Genotoxic Effects	Singh Z., Singh I.	Scientific Reports	2019	-	-	Department of Zoology, Khalsa College, Amritsar, Punjab 143001, India; Department of Physics, Khalsa College, Amritsar, Punjab 143001, India
1104	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	Singh J., Bahel S.	2019 IEEE MTT-S International Microwave and RF Conference, IMARC 2019	2019	-	-	Guru Nanak Dev University, Department of Electronics Technology, Amritsar, India
1105	Effect of Anisotropic Pressure on Electron Acoustic Oscillatory and Monotonic Shocks in Superthermal Magnetoplasma	Singh K., Saini N.S.	Radio Science	2019	-	-	Department of Physics, Guru Nanak Dev University, Amritsar, India
1106	Exploration of anti-insect potential of trypsin inhibitor purified from seeds of Sapindus mukorossi against Bactrocera cucurbitae	Samiksha, Singh D., Kesavan A.K., Sohal S.K.	Scientific Reports	2019	-	-	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
1107	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	Singh M., Malhotra J.	Photonic Network Communications	2019	-	-	Electronics and Communication Engineering Department, Guru Nanak Dev University, Regional Campus, Jalandhar, India
1108	An Efficient Scrambled Estimator of Population Mean of Quantitative Sensitive Variable Using General Linear Transformation of Non-sensitive Auxiliary Variable	Grover L.K., Kaur A.	Communications in Mathematics and Statistics	2019	-	-	Department of Mathematics, Guru Nanak Dev University, Amritsar, Punjab 143005, India
1109	Nematicidal potential of Streptomyces antibioticus strain M7 against Meloidogyne incognita	Sharma M., Jasrotia S., Ohri P., Manhas R.K.	AMB Express	2019	-	-	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab, India; Department of Zoology, Guru Nanak Dev University, Amritsar, Punjab, India
1110	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	Virdi A.S., Singh N., Pal P., Kaur P., Kaur A.	Food Research International	2019	-	-	Department of Food Science & Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India
1111	Modulation in quality attributes of dough and starch digestibility of unleavened flat bread on replacing wheat flour with different minor millet flours	Sharma B., Gujral H.S.	International Journal of Biological Macromolecules	2019	-	-	Department of Food Science and Technology, Guru Nanak Dev University, Amritsar, 143005, India
1112	Ka band absorption properties of substituted nickel spinel ferrites: Comparison of open-circuit approach and short-circuit approach	Pubby K., Bindra Narang S.	Ceramics International	2019	-	-	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab 143005, India
1113	Structural insights into the binding mechanism of Plasmodium falciparum exported Hsp40-Hsp70 chaperone pair	Behl A., Mishra P.C.	Computational Biology and Chemistry	2019	-	-	Department of Biotechnology, Guru Nanak Dev University, Amritsar, Punjab, India



1114	Self-assembly of p-Aminothiophenol on Gold Surface: Application for Impedimetric and Potentiometric Sensing of Cobalt (II) Ions – A Comparative Study	Kaur S., Kaur I.	Electroanalysis	2019	-	-	Department of Chemistry, Centre for Advanced Studies, Guru Nanak Dev University, Amritsar, Punjab, 143005, India
1115	Biocontrol and plant growth promoting potential of phylogenetically new Streptomyces sp. MR14 of rhizospheric origin	Kaur T., Rani R., Manhas R.K.	AMB Express	2019	-	-	Department of Microbiology, Guru Nanak Dev University, Amritsar, Punjab 143005, India
1116	Effect of $\alpha$ -glycosidase inhibitors from endophytic fungus Alternaria destruens on survival and development of insect pest Spodoptera litura Fab. and fungal phytopathogens	Kaur J., Sharma A., Sharma M., Kumari Manhas R., Kaur S., Kaur A.	Scientific Reports	2019	-	-	Department of Microbiology, Guru Nanak Dev University, Amritsar, 143005, India; Department of Zoology, Guru Nanak Dev University, Amritsar, 143005, India
1117	Assessment of tumor inducing potential of lead using crown gall tumor disc bioassay	Kumar V., Bhatti S.S., Kaur S., Katnoria J.K., Nagpal A.K.	Nucleus (India)	2019	-	-	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, 143005, India
1118	'Metal free' fluorescent anionic assemblies: Efficient platform for detection of electron deficient nitroaromatics and cationic dyes	Kataria M., Singh Z., Kumar M., Bhalla V.	Dyes and Pigments	2019	-	-	Department of Chemistry, UGC Sponsored Centre for Advanced Studies-II, Guru Nanak Dev University, Amritsar, Punjab, India
1119	Probing non-covalent interactions of phosphine and arsine derivatives: an energy decomposition analysis using localized molecular orbitals	Shiekh B.A., Kaur D., Kaur R.	Structural Chemistry	2019	-	-	Department of Chemistry, UGC Sponsored Centre of Advanced, z Studies-I, Guru Nanak Dev University, Amritsar, 143005, India
1120	A weakest link-driven global QoS adjustment approach for optimizing the execution of a composite web service	Kahlon N.K., Chahal K.K., Narang S.B.	Knowledge and Information Systems	2019	-	-	Department of Computer Science, Guru Nanak Dev University, Amritsar, India; Department of Electronics Technology, Guru Nanak Dev University, Amritsar, India
1121	Azolla pinnata, Aspergillus terreus and Eisenia fetida for enhancing agronomic value of paddy straw	Arora M., Kaur A.	Scientific Reports	2019	-	-	Department of Zoology, Guru Nanak Dev University, Punjab, 143005, India
1122	Interactions in the mixed micelles of monomeric and gemini surfactants: Influence of some co-solvents as a function of temperature	Sood A.K., Kaur H., Banipal T.S.	Arabian Journal of Chemistry	2019	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar, Punjab 143 005, India
1123	IoT based assistive companion for hypersensitive individuals (ACHI) with autism spectrum disorder	Khullar V., Singh H.P., Bala M.	Asian Journal of Psychiatry	2019	-	-	CT Institute of Engineering, Management and Technology, Jalandhar, India; Khalsa College of Engineering and Technology, Amritsar, India; IKG Punjab Technical University, Kapurthala, India
1124	Molecular characterization and study of abiotic soil parameters to understand the natural habitat preference of entomopathogenic nematode distolabrellus veechi isolates	Parihar R.D., Singh D., Sohal S.K., Kesavan A.K., Ohri P., Pankaj	Indian Journal of Nematology	2019	-	-	Department of Molecular Biology and Biochemistry, Guru Nanak Dev University, Amritsar, Punjab, India; Division of Nematology, ICAR-IARI, New Delhi, 110 012, India
1125	Accumulation, morpho-physiological and oxidative stress induction by single and binary treatments of fluoride and low molecular weight phthalates in Spirodela polyrhiza L. Schleiden	Sharma R., Kumari A., Rajput S., Nishu, Arora S., Rampal R., Kaur R.	Scientific Reports	2019	-	-	Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar, Punjab 143005, India; Department of Environmental Science, University of Jammu, Jammu, 180016, India
1126	Adsorption of bivalent lead ions from an aqueous phase system: Equilibrium, thermodynamic, kinetics, and optimization studies	Saini S., Kumar R., Chawla J., Kaur I.	Water Environment Research	2019	-	-	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
1127	Demographic influences on consumer decisions in the banking sector: evidence from India	Kaur H., Arora S.	Journal of Financial Services Marketing	2019	-	-	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
1128	Modelling the Effects of Financial Services Advertising on Financial Product Purchase: An Empirical Validation	Dogra P., Sharma R.R.	Vision	2019	-	-	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



1129	Cholesterol bound Plasmodium falciparum co-chaperone 'PFA0660w' complexes with major virulence factor 'PfEMP1' via chaperone 'PfHsp70-x'	Behl A., Kumar V., Bisht A., Panda J.J., Hora R., Mishra P.C.	Scientific Reports	2019	-	-	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
1130	Self-Focusing of Quadruple Gaussian Laser Beam in Relativistic Plasma using Moment Theory Approach	Pathak N., Agarwal P.C., Dhriti K.M., Kaur S., Gill T.S.	2019 Workshop on Recent Advances in Photonics, WRAP 2019	2019	-	-	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
1131	Mass Transpiration in Nonlinear MHD Flow Due to Porous Stretching Sheet	Singh J., Mahabaleshwar U.S., Bognár G.	Scientific Reports	2019	-	-	Department of Mathematics, Guru Nanak Dev University, Amritsar, 143005, India; Department of Mathematics, Davangere University Shivagangotri, Davangere, 577 007, India; Institute of Machine and Product Design, University of Miskolc, Miskolc-Egyetemvaros, 3515, Hungary
1132	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	Bhagat K., Singh A., Dhiman S., Vir Singh J., Kaur R., Kaur G., Kaur Gulati H., Singh P., Kumar R., Salwan R., Bhagat K., Singh H., Sharma S., Singh Bedi P.M.	Medicinal Chemistry Research	2019	-	-	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
1133	Development and characterization of Solid-SNEDDS formulation of DHA using hydrophilic carrier with improved shelf life, oxidative stability and therapeutic activity	Singh H., Nathani S., Singh N., Roy P., Paul S., Sohal H.S., Jain S.K.	Journal of Drug Delivery Science and Technology	2019	-	-	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
1134	DNA damage protection: an excellent application of bioactive compounds	Kaur P., Purewal S.S., Sandhu K.S., Kaur M.	Bioresources and Bioprocessing	2019	-	-	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
1135	Transcriptional profiling of contrasting genotypes revealed key candidates and nucleotide variations for drought dissection in Camellia sinensis (L.) O. Kuntze	Parmar R., Seth R., Singh P., Singh G., Kumar S., Sharma R.K.	Scientific Reports	2019	-	-	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
1136	Metal resistant PGPR lowered Cd uptake and expression of metal transporter genes with improved growth and photosynthetic pigments in Lycopersicon esculentum under metal toxicity	Khanna K., Jamwal V.L., Gandhi S.G., Ohri P., Bhardwaj R.	Scientific Reports	2019	-	-	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
1137	Scientific validation of the antimicrobial and antiproliferative potential of Berberis aristata DC root bark, its phytoconstituents and their biosafety	Sood H., Kumar Y., Gupta V.K., Arora D.S.	AMB Express	2019	-	-	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 Vishwavidyalaya, Palampur, H.P. 176062, India



1138	Simulation of Terahertz Propagation by TE Mode in Metal Dielectric Metal Waveguide	Kaur R., Kaur M., Agarwal P.C., Kaur S., Kumar G.	2019 Workshop on Recent Advances in Photonics, WRAP 2019	2019	-	-	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
1139	Comparative modeling and mutual docking of structurally uncharacterized heat shock protein 70 and heat shock factor- 1 proteins in water buffalo	Singh R., Gurao A., Rajesh C., Mishra S.K., Rani S., Behl A., Kumar V., Kataria R.S.	Veterinary World	2019	-	-	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
1140	Paper strips coated with polypyrrole-wrapped carbon nanotube composites for chemi-resistive gas sensing	Hamouma O., Kaur N., Oukil D., Mahajan A., Chehimi M.M.	Synthetic Metals	2019	-	-	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
1141	In-situ localization and biochemical analysis of bio-molecules reveals Pb-stress amelioration in Brassica juncea L. by co- application of 24-Epibrassinolide and Salicylic Acid	Kohli S.K., Bali S., Tejpal R., Bhalla V., Verma V., Bhardwaj R., Alqarawi A.A., Abd_Allah E.F., Ahmad P.	Scientific Reports	2019	-	-	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
1142	Evaluation of the role of rhizobacteria in controlling root- knot nematode infection in Lycopersicon esculentum plants by modulation in the secondary metabolite profiles	Khanna K., Jamwal V.L., Sharma A., Gandhi S.G., Ohri P., Bhardwaj R., Al-Huqail A.A., Siddiqui M.H., Marraiki N., Ahmad P.	AoB PLANTS	2019	-	-	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
1143	Assessment of subcellular ROS and NO metabolism in higher plants: Multifunctional signaling molecules	Kohli S.K., Khanna K., Bhardwaj R., Abd Allah E.F., Ahmad P., Corpas F.J.	Antioxidants	2019	-	-	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 Zaidín, Consejo Superior de Investigaciones Científicas (CSIC), C/Profesor Albareda, 1, Granada, 18008, Spain



1144	Global evaluation of heavy metal content in surface water bodies: A meta-analysis using heavy metal pollution indices and multivariate statistical analyses	Kumar V., Parihar R.D., Sharma A., Bakshi P., Singh Sidhu G.P., Bali A.S., Karaouzas I., Bhardwaj R., Thukral A.K., Gyasi-Agyei Y., Rodrigo-Comino J.	Chemosphere	2019	-	-	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 Geomorfología y Suelos, Department of Geography, University of Malaga, Malaga, 29071, Spain; Department of Physical Geography, University of Trier, Trier, 54296, Germany
1145	Interactive video-player to improve social smile in individuals with autism spectrum disorder	Khullar V., Bala M., Singh H.P.	Advances in Autism	2019	-	-	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
1146	Study of environment friendly bismuth incorporated lithium borate glass system for structural, gamma-ray and fast neutron shielding properties	Kaur P., Singh K.J., Kurudirek M., Thakur S.	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	2019	-	-	Department of Physics, Guru Nanak Dev University, 143005, Amritsar, India; Physics Department, Faculty of Sciences, Atatürk University, Erzurum, 25240, Turkey; Department of Physics, Guru Nanak Dev University College Verka, Amritsar, Punjab 143501, India
1147	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 × 10 <sup>5</sup> Pa: Volumetric, Acoustic, Calorimetric, and Absorption studies	Beri A., Kaur R., Banipal P.K., Banipal T.S.	Journal of Chemical and Engineering Data	2019	-	-	Department of Chemistry, Guru Nanak Dev University, Amritsar Punjab, 143005, India
1148	Design and Applications of Small Molecular Probes for Calcium Detection	Roopa, Kumar N., Kumar M., Bhalla V.	Chemistry - An Asian Journal	2019	-	-	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
1149	Effect of Cr–Bi substitution on the structural, optical, electrical and magnetic properties of strontium hexaferrites	Carol T. T.T., Mohammed J., Bhat B.H., Mishra S., Godara S.K., Srivastava A.K.	Physica B: Condensed Matter	2019	-	-	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
1150	Strain dependence of the thermoelectric performance of porous armchair silicene nanoribbons	Kaur S., Randhawa D.K.K., Narang S.B.	Journal of Materials Research	2019	-	-	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
1151	Proteome Analysis of the Gametophytes of a Western Himalayan Fern Diplazium maximum Reveals Their Adaptive Responses to Changes in Their Micro-Environment	Sareen B., Thapa P., Joshi R., Bhattacharya A.	Frontiers in Plant Science	2019	-	-	Division of Biotechnology, CSIR-Institute of Himalayan Bioresource Technology, Palampur, India; Department of Biotechnology, Guru Nanak Dev University, Amritsar, India



**Annexure-XXII****Revenue generated from Consultancy during the academic year 2018-19**

<b>Name of the Consultant (s) Department</b>	<b>Name of Consultancy Project</b>	<b>Consulting/ Sponsoring Agency</b>	<b>Revenue Generated (amount in rupees)</b>
Architecture	Bhai Jaita Memorial	Govt of Punjab	25 Crore
Architecture	MRSPTU Bhatinda	Govt of Punjab	130 Crore
Architecture	GNDU Amritsar	Govt of Punjab	--
Department of Pharmaceutical Sciences and Botanical & Environmental Sciences	Acute and chronic toxicity studies of marketed herbal formulations of Shree Dhanvantri Herbals	Shree Dhanvantri Herbals	6,31,800
Human Genetics	Genetic Counselling	Govt of Punjab	34,500
Civil Engineering	“Mukh Mantri Pendu Vikas Yozna ”	Government of Punjab	6,00,000
Consultancy Wing, Faculty of Physical Planning and Architecture	RURBAN Mission Phase II	Deptt. of Rural Development & Panchayat, Govt. of Punjab	67,50,000.00
Consultancy Wing, Faculty of Physical Planning and Architecture	RURBAN Mission Phase II	Deptt. of Rural Development & Panchayat, Govt. of Haryana	21,00,000.00
Consultancy Wing, Faculty of Physical Planning and Architecture	RURBAN Mission Phase III	Deptt. of Rural Development & Panchayat, Govt. of Punjab	13,50,000.00
Consultancy Wing, Faculty of Physical Planning and Architecture	RURBAN Mission Phase III	Deptt. of Rural Development & Panchayat, Govt. of Haryana	27,00,000.00

**Annexure-XXXIII**

**Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the academic year 2018-19**

<b>Name of the Scheme</b>	<b>Organising Units/Agency/ Collaborating Agency</b>	<b>Number of Teachers Coordinated in Such Activities</b>	<b>Number of Participated in such Activites</b>
Yoga Day	NSS	3	40
Swachh Bharat (Summmer Intership)	NSS	3	45
Blood Donation Camp	Guru Nanak Hospital	5	200
District Youth Welfare	Amritsar & Taran Taran District	15	50
Swachh Bharat	NSS	2	50
CATC SSB/PD	NCC	1	4
Republic Day Prade	NCC	1	11
‘BEE’ Certificate Training	NCC	1	30
‘BEE’ Certificate Examination	NCC	1	9
CATC Early Selection Camp	NCC	1	9
Piolting on Visit of ‘ADG’ NCC IN NCC GP HQ, ASR	NCC	1	4
Marathon Run	NCC	1	4
Sharadhanjali	NCC	1	2
March	NCC	1	5
Interview With CO sir regarding IMA Attachment Camp	NCC	1	30
Lecture by Army Recruitment Officer To Cover Carrier Aspect	NCC	1	9
EBSB Camp	NCC	1	53
Independence Day Drill	NCC	1	2
Independence Day Drill	NCC	1	4



Enrollment Day	NCC	1	53
RDC selection for Culture day	NCC	1	53
Basic Leadership Camp	NCC	1	53
Army Attachment Camp	NCC	1	53
Swachh Bharat Abhiyan Rally	NCC	1	6
Culture Day Group Competition	NCC	1	6
Swachh Bharat Abhiyan Rally	NCC	1	2
CATC Camp	NCC	1	7
Vigilance Awareness	NCC	1	6
Blood Donation Camp	NCC	1	53
P-RDC Camp Ropar	NCC	1	30
CATC Camp	NCC	1	53
Republic Day Drill	NCC	1	1
Republic Day Drill	NCC	1	1
B & C Certificate Training	NCC	1	53
Cancer Awareness (Phulkari CAN )	NCC	1	11
IAS Officer Visit	NCC	1	15
B Certificate Exam	NCC	1	53
Blood Donation Camp	NCC	1	5
C Certificate Exam	NCC	1	6
Convocation Duty	NCC	1	30
Yoga Day Trg	NCC	1	6
International Day of Yoga	NCC	1	6

**Annexure-XXIV**

<b>Awards and Recognition Received for Extension Activities from Government and Other Recognized Bodies During Academic Year (2018-19)</b>				
<b>Sr.No</b>	<b>Name of Activity</b>	<b>Award / Recognition</b>	<b>Awarding Bodies</b>	<b>Number of Students Benefited</b>
1	Classical Instrumental (Percussion)	Gold Medal	National Level	1
2	Western Vocal (Solo)	Gold Medal	National Level	1
3	Light Vocal (Indian )	Gold Medal	National Level	1
4	Western Group Dance	Gold Medal	National Level	6
5	Indian Group Song	Silver Medal	National Level	6
6	Mimicry	Silver Medal	National Level	1
7	On the spot Painting	Silver Medal	National Level	1
8	Cartooning	Silver Medal	National Level	1

**Annexure-XXV**

**Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the academic year 2018-19**

<b>Name of the Scheme</b>	<b>Organising Units/ Agency/ Collaborating Agency</b>	<b>Name of the Activity</b>	<b>Number of Teacher Coordinated in such Activities</b>	<b>Number of Participated in such Activities</b>
Yoga Day	Unit 1	Yoga Day	3	40
Swachh Bharat	Unit 2	Swachh Bharat (Summer internship)	3	45
Blood Donation Camp	Guru Nanak Hospital	Blood Donation Camp	5	200
District Youth Welfare	Amritsar & Taran Taran District	District Youth Welfare	15	50
Swachh Bharat	Unit 2	Swachh Bharat	2	50



## Annexure-XXVI

Sr. No	Nature of Linkage	Title of Linkage	Name of partnering institutions industry/ research lab with contact details	Duration From	Duration To	Participant
1	Research Training for Students	Industrial/ Research Training	National Institute of Pharmaceutical Education and Research S.A.S Nagar Punjab.	08.07.2018	19.07.2019	3
2	Research Training for Students	Industrial/ Research Training	Central Research Institute Kasuali Director Centre Research Institute	01.06.2019	30.06.2019	4
3	Industry Academia Relations	Internship Industrial Training	-	01.01.2019	30.04.2019	350
4	Industry Academia Relations	Internship Industrial Training	-	01.01.2019	30.04.2019	90
5	Industry Academia Relations	Internship Industrial Training	-	01.06.2019	30.06.2019	30
6	Industry Academia Relations	Internship Industrial Training	-	01.06.2019	30.06.2019	14
7	Industry Academia Relations	Internship Industrial Training	-	01.06.2019	30.06.2019	80
8	Industry Academia Relations	Internship Industrial Training	-	01.06.2019	30.06.2019	90
9	Industry Academia Relations	Internship Industrial Training	-	01.06.2019	30.06.2019	40
10	Industry Academia Relations	Internship Industrial Training	-	01.06.2019	30.06.2019	80
11	Industry Academia Relations	Internship Industrial Training	-	01.06.2019	30.06.2019	103
12	Industry Academia Relations	Internship Industrial Training	-	01.06.2019	30.06.2019	150
13	Industry Academia Relations	Internship Industrial Training	-	01.06.2019	30.06.2019	300
14	Industry Academia Relations	Internship Industrial Training	-	01.06.2019	30.06.2019	150
15	Industry Academia Relations	Internship Industrial Training	-	01.06.2019	30.06.2019	180
16	Industry Academia Relations	Internship Industrial Training	-	01.06.2019	30.06.2019	180
17	Industry Academia Relations	Internship Industrial Training	-	01.01.2019	30.04.2019	100
18	Industry Academia Relations	Internship Industrial Training	-	01.05.2019	15.05.2019	240
19	Industry Academia Relations	Internship Industrial Training	-	01.06.2019	30.06.2019	80
20	Industry Academia Relations	Internship Industrial Training	-	01.06.2019	30.06.2019	21
21	Industry Academia Relations	Internship Industrial Training	-	01.06.2019	30.06.2019	15

**Annexure-XXVII****MoUs Signed with Institutions of National, International Importance, Other Universities, Industries, Corporate House etc. during the Academic Year 2018-19**

<b>Organization</b>	<b>Date of MoUs Signed</b>	<b>Purpose and Activities</b>	<b>Number of Students/Teachers participating under MoUs</b>
Nishan-e-Sikhi Charitable Trust, Khadur Sahib (Tarn Taran)	26-June-2019	Coaching for civil service exams under public private partnership (PPP) mode	Faculty members and students of GNDU
University and University of Oklahoma	20-June-2019	Academic and Research collaboration, student exchange and Research training and internship	Faculty members and students of GNDU
The University of South Florida, USA	26-Feb-2019	Academic and Research collaboration, student exchange and Research training and internship	Faculty members and students of GNDU
Cornell University, USA	11-April-2019	Academic and Research collaboration, student exchange and Research training and internship	Faculty members and students of GNDU
EdCIL (INDIA) Limited, A CPSE under MHRD implementing partner for Study in India	10-Jan-2019	Programme under MHRD, Government of India EdCIL (India) Academic opportunities for foreign students	Faculty members and students of GNDU
Hotel Holiday Inn, Amritsar	14-Dec-2018	Develop synergetic collaborations in resource sharing and knowledge sharing activities in tourism & Hospitality industry	Faculty members and students of GNDU
Majha House, Amritsar	30-Oct-2018	Improve the quality of arts and culture across Punjab, Workshops and training for students and faculty members	Faculty members and students of GNDU
INTERNSHALA, Gurugram	17-Oct-2018	Facilitate internships for students enrolled under GNDU	Faculty members and students of GNDU
National Institute of Urban Affairs (NIUA), New Delhi	1-Oct-2018	Academic and Research collaboration, student exchange and Research training and internship	Faculty members and students of GNDU
The BrewMaster, Amritsar	4-Sept-2018	Sharing activities in Tourism & Hospitality industry	Faculty members and students of GNDU
CSIR-National Botanical Research Institute, Lucknow	16-Aug-2018	Academic and Research collaboration, student exchange and Research training and internship	Faculty members and students of GNDU
Radisson Blu Hotel and Park Inn	3-Aug-2018	Sharing activities in Tourism & Hospitality industry	Faculty members and students of GNDU

**Annexure-XXVIII**

<b>Facilities</b>	<b>Existing</b>	<b>Newly added</b>
Campus Area	296547 sqmt	5570 sqmt
Class Rooms	273	6
Laboratories	245	2
Seminar Halls	11	3
Classrooms with LCD facilities	25	1
Classrooms with Wi-Fi/LAN	36	5
Seminar halls with ICT facilities	20	3
Video Centre	4	1
No. of important equipments purchased (Greater than 1-0 lakhs) during the current academic year 2018- 19	269	34
Value of the equipment purchased during the academic year (Rs. in Lakhs) Others	3,70,13,806	65,56,813

**Annexure-XXIX****Library Services**

	<b>Existing</b>		<b>Newly added</b>		<b>Total</b>	
	<b>No.</b>	<b>Value</b>	<b>No.</b>	<b>Value</b>	<b>No.</b>	<b>Value</b>
<b>Text Books</b>	69129	10,16,907	4002	41,35,653	73131	51,52,570
<b>Reference Books</b>	8306		165		8471	
<b>e-Books</b>	-	-	-	-	-	-
<b>Journals</b>	189	59,39,374	195	52,12,776	384	111,52,150
<b>e-Journals</b>	2404	1,54,41,831 approx	2196	£ 23,325 and \$183602	4600	1,54,41,831, £23,325 and \$183602
<b>Digital Database</b>	Scopus, SciFinder	28,89,954	Scopus SciFinder IEEE database of e- journals	18,82,951, 1,62,252, 7,61,093	Scopus, SciFinder, IEEE database of e-journals	55,50,250
<b>CD &amp; Video</b>	2323 (CDs with Books) 2389 (CDs with Ph.D Thesis/MPhil Dissertations)	-		-	-	2323 (CDs with Books) 2389 (CDs with Ph.D Thesis/MPhil Dissertations)
<b>Other (specify)</b>	Apart from the above subscribed resources, 7040 e- journals of various publishers and some databases are also available through e-Shodhsindhu.					

**Annexure-XXX****Number of Capability Enhancement and Development Schemes such as Soft Skill Development, Remedial Coaching, Language Lab, Bridge Courses, Yoga, Meditation, Personal Counselling and Mentoring etc. Academic Year 2018-19**

Sr.No	Name of the Capability Enhancement Scheme	Date of Implementation	Number of Students Enrolled	Agencies involved
1	Hands on Training for Data Access Workshop (in collaboration with world bank)	16.04.2019	150	World Bank
2	PDPET	01.10.2018	70	National Institute of Open Schooling
3	D.El.Ed.	01.01.2018	95	National Institute of Open Schooling
4	Laughter Yoga Session to combat stress of students before exams	24.04.2019	82	Laughter Yoga Club, New Delhi
5	Soft Skills Training Session by Dr. Kavita Khalon	02.04.2019	82	Departmental Level
6	Language Lab	01.09.2017	89	Department of English
7	Yoga Day	21.06.2019	40	NSS, GNDU
8	Swachh Bharat( Summmer Internship)	19.03.2019	45	NSS, GNDU
9	Blood Donation Camp	30.08.2019	200	Guru Nanak Hospital
10	District Youth Welfare	01.10.2019	50	Amritsar & Taran Taran District
11	Swachh Bharat	02.04.2019	50	NSS, GNDU
12	CATC SSB/PD	20.01.2019	15	NCC, GNDU
13	Republic Day Prade	26.01.2019	30	NCC, GNDU
14	'BEE' Certificate TRG	01.02.2019	9	NCC, GNDU
15	'BEE' Certificate Exmination	03.02.2019	9	NCC, GNDU
16	CATC Early Selection Camp	09.03.2019	8	NCC, GNDU
17	Piolling on Visit of 'ADG' NCC in NCC GP HQ, ASR	19.03.2019	2	NCC, GNDU
18	Marathon Run	31.03.2019	5	NCC, GNDU
19	Sharadanjali March	06.04.2020	10	NCC, GNDU
20	Interview With CO Sir regarding IMA Attachment Camp	24.04.2020	2	NCC, GNDU
21	Lecture by Army Recuritment Officer to Cover Carrier Aspect	09.03.2019	53	NCC, GNDU
22	EBSB Camp	04.06.2019	2	NCC, GNDU
23	Independence Day Drill	15.08.2019	4	NCC, GNDU
24	Independence Day Drill	15.08.2019	53	NCC, GNDU
25	Enrollment Day	30.08.2019	53	NCC, GNDU
26	RDC Selection for Culture Day	28.10.2019	53	NCC, GNDU
27	Basic Leadership Camp	01.09.2019	10	NCC, GNDU
28	Army Attachment Camp	30.09.2019	6	NCC, GNDU
29	Swachh Bharat Abhiyan Rally	02.10.2019	53	NCC, GNDU
30	Culture Day Group Competition	04.10.2019	9	NCC, GNDU
31	Swachh Bharat Abhiyan Rally	09.10.2019	6	NCC, GNDU
32	CATC Camp	16.10.2019	8	NCC, GNDU
33	Vigilance Awareness	28.10.2019	5	NCC, GNDU
34	Blood Donation Camp	28.11.2019	53	NCC, GNDU
35	P-RDC Camp Ropar	02.12.2019	1	NCC, GNDU
36	CATC Camp	02.01.2020	1	NCC, GNDU
37	Republic Day Drill	26.01.2020	53	NCC, GNDU
38	Republic Day Drill	26.01.2020	11	NCC, GNDU
39	B & C Certificate Trg	26.01.2020	15	NCC, GNDU
40	Cancer Awareness (Phulkari CAN )	02.02.2020	53	NCC, GNDU
41	IAS Officer Visit	02.01.2020	53	NCC, GNDU
42	B Certificate Exam	09.02.2020	11	NCC, GNDU
43	C Certificate Exam	16.02.2020	18	NCC, GNDU
44	Convocation Duty	05.03.2020	12	NCC, GNDU
45	Yoga Day Trg	18.06.2020	53	NCC, GNDU
46	International Day of Yoga	21.06.2020	53	NCC, GNDU





**Annexure-XXXI**

**Students Benefited by Guidance for Competitive Examinations and Career Counselling Offered by the Institution During the Academic Year 2018-19**

<b>Year</b>	<b>Name of the Scheme</b>	<b>Number of Benefited Students for Competitive Examination</b>	<b>Number of Benefited Students by Career Counseling Activities</b>	<b>Number of Students who have Passed in the Competitive Examination</b>	<b>Number of Students Placed</b>
2018	JRF	1	1	1	1
2018	NET	41	41	41	41
2018	Indian Navy (Asstt. Commandant)	1	1	1	1
2018	Punjab Session Officer (Punjab)	1	1	1	1
2018	Corporation Inspector (Punjab)	1	1	1	1
2018	Economics Teacher (Punjab)	1	1	1	1
2018	Part-Time Lecturer	1	1	1	1



## Annexure-XXXII

## Details of Campus Placement 2018-19

ON Campus				Off Campus			
S.No	Name of Organization Visited	Number Students Participated	Number of Students Placed	S.No	Number of Organization visited	Number of Students Participated	Number of Students Placed
1	TCS Digital	689	144	1	Valeur HR	18	7
2	Nagarro	444	11	2	HP	19	3
3	KPMG	205	11	3	Wave Beverages	15	3
4	HDFC Bank	201	28	4	Securenw	11	1
5	SAP Labs	49	13	5	Ludhiana Beverages	12	2
6	E & Y	127	7	6	Ricela	12	1
7	Software AG	343	7	7	Berger Paints	65	2
8	Capgemini	259	47	8	Internshala	246	88
9	TT Consultants	87	5	9	Idea Usher	6	1
10	Xenon Stack	22	22	10	GOTESO	10	1
11	Mind Infotech	55	2	11	Defacto Infotech	11	1
12	Khanna Paper Mills	44	3	12	Razorpod	5	1
13	Infogain	122	9	13	Cadence Design Systems	4	1
14	Chicmic	91	3	14	Omninos Solutions	6	1
15	Hashmap	200	5	15	Ditstek (DITS)	3	1
16	CueMath	120	6	16	Decision Minds	2	1
17	Bebo Technologies	56	3	17	UAS International	55	17
18	TCS DISQ	3	3	18	Chegg India	18	3
19	Value Creatives	40	17	19	ASG Technologies	5	1
20	Jaro Education	174	6	20	Ludhiana Beverages	13	2
21	Vadilal	25	3	21	Byjus	22	3
22	Click Labs	130	14	22	Tata Consulting Engineers	11	1
23	ITC	78	4	23	Statusbrew	14	1
24	Bandhan Bank	44	8	24	Bridge Group Solutions	26	6
25	Azure Power	62	5	25	OAT India	10	3
26	Amdocs	298	10	26	Shikshit	35	23



					Bharat		
27	Capgemini	147	32	27	Nestle	16	2
28	IOL Pharma.	116	13	28	Bajaj Finance	6	1
29	Bestseller	49	3	29	Genpact	12	1
30	75 Way Technologies	86	5	30	Metro Wholesale	8	1
31	ICICI Prudential	57	16	31	Maaruji Technolgies	6	1
32	Jubilant Chemsys	39	14	32	Jamna Automobile	15	1
33	Apollo Munich	60	11	33	Cognizant	8	1
34	TCNS Clothing	30	10	34	Donepull	5	1
35	Bajaj Allianz	41	9	35	Bebo Technologies	14	2
36	Velite Pharmaceuticals	23	4	36	Samsung	25	1
37	S & P Finance	26	3	37	Significant	11	3
38	DS Infotech	332	5	38	Infosys	21	3
39	SBI Life Insurance	83	7				
40	Wipro	115	27				
41	HDFC AMC	32	4				
42	J Marathon	43	25				
43	Majha House	24	7				
44	Ravenbhel Biotech	71	5				
45	Nectar Life Sciences	38	9				
46	Walmart	23	11				
47	Mankind Pharma.	88	9				
48	Cut of Joy	22	14				
49	Omics International	73	26				



**Annexure-XXXIII**  
**Student Progression to Higher Education Academic Year 2018-19**

Sr.No	Year	Number of Students Enrolling into Higher Education	Programme Graduated From	Department Graduated From	Name of Institution Joined	Name of Programme Admitted To
1	2018-19	1	MSc Microbiology	Microbiology	IMTECH, Chandigarh	PhD
2	2018-19	2	MSc Microbiology	Microbiology	Punjab University, Chandigarh	PhD
3	2018-19	1	MSc Microbiology	Microbiology	IIT, New Delhi	PhD
4	2018-19	2	MA English	English	Dept. of English, GNDU, Amritsar	PhD English
5	2018-19	15	BA (HS) Punjabi	School of Punjabi Studies	Dept. School of Punjabi Studies, GNDU, Amritsar	MA Punjabi
6	2018-19	5	MA Punjabi	School of Punjabi Studies	Dept. School of Punjabi Studies, GNDU, Amritsar	PhD Punjabi
7	2018-19	20	BA (HS) Social Sciences	School of Punjabi Studies	Punjab University, Chandigarh and JNU, New Delhi and Ashoka University	MA
8	2018-19	5	Graduate	University School of Business	University School of Business GNDU, Amritsar	MBA
9	2018-19	4	MA Sociology	Sociology	Dept. of Sociology, GNDU, Amritsar	PhD
10	2018-19	3	MSc (Food Tech.)	Food Science & Technology	Dept. of Food Science & Technology GNDU, Amritsar	Pre PhD (Food Tech.)
11	2018-19	1	MTech	NIFTEM	GNDU, Amritsar	Pre PhD (Food Tech.)
12	2018-19	1	MSc (Food Science & Nutrition)	Pondicherry University	Dept. of Food Science & Technology GNDU, Amritsar	Pre PhD (Food Tech.)
13	2018-19	3	MPhil Hindi	Hindi	Dept. of Hindi, GNDU, Amritsar	PhD Hindi
14	2018-19	1	MA Hindi	Hindi	Dept. of Hindi, GNDU, Amritsar	PhD Hindi
15	2018-19	15	GNDU	Human Genetics	Dept. of Human Genetics, GNDU, Amritsar	MSc (HS), Pre PhD
17	2018-19	10	Bachelor of Architecture	Architecture	1.SPA Delhi 2.SPA Bhopal 3.NIT Trichy 4.NID Ahmedabad 5.CEPT Ahmedabad	Master Architecture, Master of Planning & Related Fields



18	2018-19	4	MSc (Botany): 3 students, MSc (Environmental Sciences) : 1 student	Botanical and Environmental Sciences	Dept. of Botanical and Environmental Sciences, GNDU, Amritsar	PhD Programme
19	2018-19	2	MTech	Civil Engineering	GNE Ludhiana	MTech
20	2018-19	9	Bachelor of Pharmacy	Pharmaceutical Sciences	Dept. of Pharmaceutical Sciences, GNDU, Amritsar	Master of Pharmacy 8
					Lovely Professional University (LPU)	Master of Pharmacy 1
21	2018-19	6	Bachelor of Library and Information Sci.(Hons.)	Library and Information Science	Dept. of Library and Information Science GNDU, Amritsar	Master of Library and Information Sci
22	2018-19	1	MSc Molecular Biology & Biochemistry	Molecular Biology & Biochemistry	Dept. of Molecular Biology & Biochemistry, GNDU, Amritsar	PhD
23	2018-19	3	MA Sanskrit	02- Deptt. of Sanskrit, Guru Nanak Dev University, Amritsar, 01	Dept. of Sanskrit, Pali & Prakrit, GNDU, Amritsar	MPhil Sanskrit
24	2018-19	2	MSc Biotechnology	Biotechnology	1.GNDU, Amritsar 2.AIIMS, New Delhi	PhD
25	2018-19	13	BTech (Urban & Regional Planning)		Dept. of Guru Ramdas School of Planning, GNDU, Amritsar	9 students admitted in MPlan (Urban) 4 students admitted in MPlan (Infrastructure)
26	2018-19	1	MSc	Zoology	Imperial College, London	MSc, PhD Intergrate Course
27	2018-19	1	MSc	Physics Deptt., GNDU	Aix Marseille University, Marseille, France	PhD (Physics of ionic and Molecular Interactions)
28	2018-19	1	PhD	Physics Deptt., GNDU	Royal College of Surgeons, Ireland	Govt. of Ireland Post Doctoral Fellowship



**Annexure-XXXIV**  
**Sports and Cultural Activities/Competitions Organized at the Institution Level**  
**During the Academic Year 2018-19**

<b>Sr.No</b>	<b>Activity/Sports</b>	<b>Level</b>	<b>Participants</b>
1	Chess	GNDU Inter/ Department Sports Competitions	36
2	Tug of War	GNDU Inter/ Department Sports Competitions	228
3	Carom	GNDU Inter/ Department Sports Competitions	56
4	Volleyball	GNDU Inter/ Department Sports Competitions	210
5	Football	GNDU Inter/ Department Sports Competitions	231
6	Kabaddi	GNDU Inter/ Department Sports Competitions	112
7	Hockey	GNDU Inter/ Department Sports Competitions	132
8	Badminton	GNDU Inter/ Department Sports Competitions	76
9	Table Tennis	GNDU Inter/ Department Sports Competitions	64
10	Basketball	GNDU Inter/ Department Sports Competitions	510
11	Best Physique	Individual Entry	10
12	Arm Wrestling	Individual Entry	24

**Cultural**

<b>Activity</b>	<b>Level</b>	<b>Participants</b>
Jashan	Departmental	399



## Annexure-XXXV

**Number of Awards/Medals for Outstanding Performance in Sports/Cultural Activities at National/International Level (Award or a Team Event should be Counted as One) Academic Year 2018-2019**

Year	Name Of Award/ Medal	National/ International	Sports	Event	Name of Student	Student Id
2019	Gold Medal	AIIU (National)	Football	-	Jagdeep Kaur	2014.Hj/A.128
2019	Gold Medal	AIIU (National)	Football	-	Ramanpreet Kaur	2013.Dw/A.28
2019	Gold Medal	AIIU (National)	Football	-	Neha	2018.Phe/A.11
2019	Gold Medal	AIIU (National)	Football	-	Arashdeep Kaur	2014.Dw/A.24
2019	Gold Medal	AIIU (National)	Football	-	Madhu Bala	2018.Phe/A.16
2019	Gold Medal	AIIU (National)	Kayaking	K-2 (200mtrs)	Priyanka Devi	2014.Dw/A.248
2019	Gold Medal	AIIU (National)	Fencing	Indv.Epee	Jyotika Dutta	2018.Phe/A43
2019	Gold Medal	AIIU (National)	Penchak Silat Ind	Tungal	Simranjot Kaur	2017.L/A.40
2018	Gold Medal	AIIU (National)	Track Cycling	3 Km Team Pursuit	Rutuja Satpute	2018.PHE/A.36
2018	Gold Medal	AIIU (National)	Track Cycling	3 Km Team Pursuit	Jasmine	2013.Dw/A-883
2019	Gold Medal	AIIU (National)	Road Cycling	20 Km Indv T.T	Satpute Rutuja Sanjay	2018.Phe/A.36
2019	Gold Medal	AIIU (National)	Road Cycling	30 Km Indv T.T	Satpute Rutuja Sanjay	2018.Phe/A.36
2019	Gold Medal	AIIU (National)	Handball	-	Sarbjit Singh	2018.Phe/A.02
2019	Gold Medal	AIIU (National)	Handball	-	Harmandeep Singh	2012.Kj/A.551
2019	Gold Medal	AIIU (National)	Fencing	Team Foil	Mohd. Tariq	2018.Phe/A.42
2019	Gold Medal	AIIU (National)	Fencing	Team Epee	Akshay M.S	2016.K/A.2450
2019	Gold Medal	AIIU (National)	Judo	56 Kg	Shivam Sharma	2018.Phe/A.38
2019	Gold Medal	AIIU (National)	Judo	90 Kg	Tarun Sharma	2018.Phe/A.37
2019	Gold Medal	AIIU (National)	Penchak Silat Ind	65-70 Kg	Gamdoor Singh	2017.Ph/A.18
2019	Gold Medal	AIIU (National)	Penchak Silat Ind	Ganda	Shubham Ruhela	2018.Phe/A.02
2019	Gold Medal	AIIU (National)	Penchak Silat Ind	Regu	Siddhartha Kumar	2018.Phe/A28
2019	Gold Medal	AIIU (National)	Penchak Silat Ind	Regu	Himanshu Dhiman	2018phe/A.01
2019	Gold Medal	AIIU (National)	Penchak Silat Ind	Regu	Siddhartha Kumar	2018.Phe/A28
2019	Gold Medal	AIIU	Penchak Silat	Regu	Himanshu	2018phe/A.01



		(National)	Ind		Dhiman	
2019	Silver Medal	AIU (National)	Kayaking	K-4(1000 Mtrs)	Priynaka Devi	2014.Dw/A.248
2019	Silver Medal	AIU (National)	Kayaking	K-4(500 Mtrs)	Priynaka Devi	2014.Dw/A.248
2019	Silver Medal	AIU (National)	Fencing	Team Foil	Jyotika Dutta	2018.Phe/A43
2019	Silver Medal	AIU (National)	Fencing	Team Sabre	Sowmiya S	2016.K/A.43
2019	Silver Medal	AIU (National)	Rugby	-	Baljit Kaur	2013.Dw/A.128
2019	Silver Medal	AIU (National)	Rowing	LWW2X (500 Mtrs)	Manpreet Kaur	2015.DW/A.216
2019	Silver Medal	AIU (National)	Rowing	Lww2x (2 Km )	Manpreet Kaur	2015.Dw/A.216
2019	Silver Medal	AIU (National)	Fencing	Indv. Foil	Mohd. Tariq	2018.Phe/A.42
2019	Silver Medal	AIU (National)	Baseball	-	Ajay Kumar	2019.Pem3010
2019	Silver Medal	AIU (National)	Baseball	-	Inderjit Singh	2019.Pem3004
2019	Silver Medal	AIU (National)	Baseball	-	Dinesh Kumar	2018.Elt/A.54
2019	Silver Medal	AIU (National)	Baseball	-	Sourav Kumar Gupta	2017.Bp/A-1
2019	Silver Medal	AIU (National)	Karate	Team Kata	Sourav Sharma	2016.L/A.89
2019	Silver Medal	AIU (National)	Rowing	Lwm2x (500 Mtrs)	Vikram Sharma	2013.Khe/A.14
2019	Silver Medal	AIU (National)	Track Cycling	4km.T Pursuit	Ikwinderjit Singh	2013.Elt/A.160
2019	Silver Medal	AIU (National)	Track Cycling	32 Km Road T.T.T	Ikwinderjit Singh	2013.Elt/A.160
2019	Bronze Medal	AIU (National)	Kayaking	K-2 (1000 Mtrs)	Priyanka Devi	2014.Dw/A.248
2019	Bronze Medal	AIU (National)	Kayaking	K-2 (200 Mtrs)	Manpreet Kaur	2015.Dw/A.216
2019	Bronze Medal	AIU (National)	Kayaking	K-4 (200 Mtrs)	Priynaka Devi	2014.Dw/A.248
2019	Bronze Medal	AIU (National)	Fencing	Team Epee	Jyotika Dutta	2018.Phe/A43
2019	Bronze Medal	AIU (National)	Fencing	Indv. Sabre	Sowmiya S	2016.K/A.43
2019	Bronze Medal	AIU (National)	Rowing	W2 (2 Km)	Jashanpreet Kaur	2014.Kw/A.125
2019	Bronze Medal	AIU (National)	Wushu	Nanquan 3 Set	Meera	2017.Phe/A-5
2019	Bronze Medal	AIU (National)	Gymnastics	Beam	Naginder Kaur	2014.Khe/A.65
2019	Bronze Medal	AIU (National)	Track Cycling	10 Km Scratch	Rutuja Satpute	2018.Phe/A.36
2019	Bronze Medal	AIU (National)	Fencing	Indv. Epee	Akshay M.S	2016.K/A.2450
2019	Bronze Medal	AIU (National)	Road Cycling	54 Km Road T.T.T	Ikwinderjit Singh	2013.Elt/A.160
2019	Bronze Medal	AIU (National)	Road Cycling	54 Km Road T.T.T	Punay Partap	2018.Phe/A.39



**Annexure-XXXVI****Teachers Provided with Financial Support to Attend Conferences/Workshops and Towards Membership Fee of Professional Bodies during the Year (2018-19)**

<b>Sr. No</b>	<b>Year</b>	<b>Name of Teacher</b>	<b>Name of Conference/Workshop Attend for which Financial Support Provided</b>	<b>Name of the Professional Body for which Membership Fee is Provided</b>	<b>Amount of Support (Rs.)</b>
1	2018-19	Dr. Gagandeep Gahlay	10th Young Investigators Meeting from 5-8 March, 2018 at Thiruvananthapuram	NA	10000
2	2018-19	Dr. Inderpreet Kaur	International Conference on Advances in Analytical Sciences (ICAAS-2018) from 15-17 March, 2018 at Dehradun	NA	10000
3	2018-19	Dr. Tejwant Singh	International Conference on Green Methods for Separation Purification and Nanomaterial Synthesis from 24-25 April 2018 at Bengaluru	NA	10000
4	2018-19	Dr. Kamaljit Singh	XIX-Nost Organic Chemistry Conference at Goa from 06-09 Sept, 2018	NA	10000
5	2018-19	Dr. Vandana Bhalla	Inter-Disciplinary Explorations in Chemistry on 1 Dec. 2018 at Bhopal	NA	10000
6	2018-19	Dr. Sukhraj Kaur	International Conference on Microbiome Research 2018 from 19-22 Nov, 2018 at Pune	NA	10000
7	2018-19	Dr. Kuldeep Singh	International Conference on Secure Cyber computing and Communication Certification of participation from 15-17 Dec, 2018 at Jalandhar	NA	7260
8	2018-19	Dr. Puja Ohri	International Conference on Climate Change and Adaptive Crop Protection for Sustainable Agri Horticulture Land scape during 20-22 Dec, 2018 at Ajmer	NA	10000
9	2018-19	Mr. Sachin Kumar	6th International Conference on Technical Textiles and Nonwovens from 06-08 Dec, 18 at New Delhi	NA	7901
10	2018-19	Dr. Kuljit Kaur	14th International Conference on open Source system (OSS 2018) at Athens, Greece from 08-10 June, 2018	NA	40000
11	2018-19	Dr. Atul Khanna	106th Indian Science Congress held at LPU Phagwara from 03-07 Jan, 2019	NA	5000
12	2018-19	Dr. Dalbir Singh Sogi	Workshop for Thrust Area 6 i.e. Industrial Hazardous & Non-Hazardous Wastes from 26-27 Nov, 2018 at Coimbatore	NA	7000
13	2018-19	Ms. Jaipreet Kaur	Course on Massive MIMO and Millimeter wave (MM Wave) Mimo Technologies for 5G Network at IIT, Kanpur from 3-6 Jan, 2019	NA	10000
14	2018-19	Dr. NPS Saini	2019 Asia Pacific Radio Science Conference at New Delhi from 11-13 March, 2019	NA	10000
15	2018-19	Dr. Jatinder Kaur	Indian Plant Science Congress at Tamilnadu from 23-25 Jan, 2019	NA	10000
16	2018-19	Dr. Nareshpal Singh Saini	19th International Congress on Plasma Physics at Vancouver Canada from 4-8 June, 2018	NA	40000

**Annexure-XXXVII**

**No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year 2018-19**

<b>Title of the Professional Development Programmes</b>	<b>Number of Teachers who Attended</b>	<b>Date and Duration (from-to)</b>
<b>Orientation Programmes</b>		
Orientation Programme-105	40	13.11.2018 to 10.12.2018
<b>Refresher Courses</b>		
Punjabi	30	15.06.2018 to 05.07.2018
Summer Programme in Material/Basic Sciences (ID)	28	16.06.2017 to 06.07.2017
Disaster Management (ID)	34	14.11.2018 to 04.12.2018
Commerce & Business Mangement	31	06.12.2018 to 26.12.2018
Winter School in Social Sciences (ID)	36	11.12.2018 to 31.12.2018
Teacher Educators	37	08.03.2019 to 28.03.2019
Summer School	40	18.06.2019 to 08.07.2019
<b>Short Term Courses</b>		
Research Methodology	47	11.09.2018 to 17.09.2018
Preparing a Research Project Proposal and Research Paper Writing	46	05.02.2019 to 11.02.2019
Workshop on MOOCs, e-content development and Open Educational Resources	40	18.02.2019 to 24.02.2019
Short Term Courses for Non-Teaching	31	06.02.2019 to 07.02.2019
<b>Faculty Development Centre</b>		
National Seminar on Future of Basic Sciences- Where we are heading to?	33	15.10.2018 to 16.10.2018
3-Days Interdisciplinary Seminar on Sustainable Urbanization, Environment and Spatial Planning Process	34	17.12.2018 to 19.12.2018
Workshop on Research Methodology in Life Sciences	39	04.01.2019 to 10.01.2019
Workshop on Emerging Teaching Pedagogy in Management	36	14.03.2019 to 20.03.2019
Induction Training Programme for Newly Recruited Faculty- 02	44	28.05.2019 to 26.06.2019
Principals Meet	61	27.03.2019

**Annexure-XXXVIII****No. of Teachers Attending Professional Development Programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the Academic Year 2018-19 outside GNDU**

<b>Title of the Professional Development Programme</b>	<b>Number of Teachers who attended</b>	<b>Date and Duration (from – to)</b>
MOOCs, e-content development and open educational Resources	2	21.02.2019 to 27.02.2019
MATLAB Project Course on Massive MIMO and Millimeter Wave (mmWave) : MIMO Technologies for 5G Networks	1	03.01.2019 to 06.01.2019
Short Course on 5G Communication	1	08.04.2019 to 12.04.2019
Hands-on Training Workshop on MOS Capacitor and Micro/Nano Characterization Techniques	1	26.11.2018 to 06.12.2018
Refresher Course in Punjabi Language and Literature	1	15.06.2018 to 05.07.2018
MOOCs, e-content development and open educational Resources (Social Sciences)	1	21.02.2019 to 27.02.2019
Cloud Computing (Com Engg)	1	27.05.2019 to 31.05.2019
Training Course on the Design and Evaluation of Innovation Policy organised by United Nations University(UNU-Merit) and Centre for Development Studies(CDS) Trivandrum Kerala (Economics)	1	04.02.2019 to 08.02.2019
UGC Sponsored Refresher Course in Environmental Studies (Inter- disciplinary) at Human Resource Development Centre, GNDU Amritsar	1	10.12.2019 to 23.12.2019
Workshop on Development, Design & Deliver MOOC Course, GNDU	1	09.01.2020 to 15.01.2020
“Scientific Workshop on principles, chemical and biological applications of NMR” at UGC-HRDC, Guru Nanak Dev University, Amritsar	1	13.03.2018 to 17.03.2018
Workshop on MOOCs, E-content Development and OER (Hindi)	1	21.02.2019 to 27.02.2019
Academic and Research Report Writing Uttar Adhunikta (Post- Modernism)	1	24.06.2019
Instructional school for Teachers (IST2019) on Partial Differential Equations: From Theory to Computation held at Department of Mathamatics, IIT Mandi during June 03-15,2019.	1	03.06.2019 to 15.06.2019
General Orientation Course (GOC-107)	1	13.11.2018 to 10.12.2018
Induction Program At HRDC,GNDU, Asr	2	28.05.2019 to 30.05.2019
UGC sponsored Short Term Course on “Preparing a Research Project Proposal & Research Paper Writing” conducted by UGC HRDC GNDU Amritsar	1	05.02.2019 to 11.02.2019

**Annexure-XXXIX****Inclusion and Situatedness**

<b>Sr.No</b>	<b>Year</b>	<b>No. of Initiatives to Address Locational Advantages &amp; Dis-Advantages</b>	<b>No. of Initiatives Taken to Engage with &amp; Contribute to Local Community</b>	<b>Date</b>	<b>Duration in Day</b>	<b>Name of Initiative</b>	<b>Issues Addressed</b>	<b>No. of Participating Students and Staff</b>
1	2018-19	1	1	22 August 2018	1	Am I Mad?	Stress	50
2	2018-19	1	1	07 September 2018	1	Feveria Fest	Health awareness	700
3	2018-19	1	1	24-29 September 2018	4	Physical Activity Camp	Health awareness	50
4	2018-19	1	4	1 May to 31 July 2018	15	Swachh Bharat Summer Internship	Cleanliness Environment awareness	45
5	2018-19	1	4	1 July to 15 August 2018	15	Swachh Bharat Abhiyan	Cleanliness	52
6	2018-19	1	2	14 November 2018	1	Blood Donation Camp	Health/ Life Care	205
7	2018-19	1	4	25 January 2019	1	District Youth Parliament	Political Awareness	100
8	2018-19	1	2	21 June 2019	1	Yoga Day	Health awareness	43
9	2018-19	1	1	15 July – 24 July 2018	10	CATC -25 with 1PB BN Grils NCC	Satlani Sahib , Asr.	4
10	2018-19	1	1	15 July – 30 July 2018	15	Swachhta Pakhwada at GNDU	GNDU,ASR	53
11	2018-19	1	1	18 July – 6 August 2018	20	TSC Inter Group Competition	Gurdaspur	2



12	2018-19	1	1	1 August – 12 August 2018	10	1 EBSB Camp Hyderabad	Hyderabad	1
13	2018-19	1	1	15 August 2018	1	Independence Day at GNDU Guest House	GNDU , Asr	53
14	2018-19	1	1	4 September 2018 – 14 September 2018	10	Aramy Attachment Camp	Khasa Cantt , Asr	2
15	2018-19	1	1	20 January 2019- 29 January 2019	9	CATC SSB/PD	NCC Academy , Ropar	15
16	2018-19	1	1	26 January 2019	1	Republic Day Prade	GNDU, Asr	30
17	2018-19	1	1	01 Febuary 2019- 02 Febuary 2019	2	‘BEE’ Certificate TRG	DAV International School , Verka chowk.	9
18	2018-19	1	1	03 Febuary 2019	1	‘BEE’ Certificate Examination	DAV International School , Verka chowk.	9

**Annexure-XXXX****Activities Conducted for Promotional of Universal Values and Ethics Academic Year (2018-2019)**

<b>Activity</b>	<b>Duration From</b>	<b>Duration To</b>	<b>No. of Participants</b>
Orientation Programme-105	13.11.2018	10.12.2018	40
Punjabi	15.06.2018	05.07.2018	30
Summer Programme in Material/Basic Sciences (ID)	16.06.2017	06.07.2017	28
Disaster Management (ID)	14.11.2018	04.12.2018	34
Commerce & Business Mangement	06.12.2018	26.12.2018	31
Winter School in Social Sciences (ID)	11.12.2018	31.12.2018	36
Teacher Educators	08.03.2019	28.03.2019	37
Summer School	18.06.2019	08.07.2019	40
Research Methodology	11.09.2018	17.09.2018	47
Preparing a Research Project Proposal and Research Paper Writing	05.02.2019	11.02.2019	46
Workshop on MOOCs, e-content development and Open Educational Resources	18.02.2019	24.02.2019	40
Short Term Courses for Non-Teaching	06.02.2019	07.02.2019	31
National Seminar on Future of Basic Sciences- Where we are heading to?	15.10.2018	16.10.2018	33
3-Days Interdisciplinary Seminar on Sustainable Urbanization, Environment and Spatial Planning Process	17.12.2018	19.12.2018	34
Workshop on Research Methodology in Life Sciences	04.01.2019	10.01.2019	39
Workshop on Emerging Teaching Pedagogy in Management	14.03.2019	20.03.2019	36
Induction Training Programme for Newly Recruited Faculty-02	28.05.2019	26.06.2019	44
Principals Meet	27.03.2019	27.03.2019	61



Government of India  
Ministry of Human Resource Development



*Certificate*

**NATIONAL INSTITUTIONAL RANKING FRAMEWORK**

**INDIA RANKINGS 2020**

**Guru Nanak Dev University, Amritsar**

**Ranked 51 in University Category**

*K. S. Sood*

CHAIRMAN, NBA

*Chinmay*

MEMBER SECRETARY, NBA



Release of Journal of Regional History by Honourable S. Sukhbinder Singh Sarkaria, Cabinet Minister, Government of Punjab, Chandigarh