

DRP ANNUAL REPORT 2022

AMITY UNIVERSITY GURUGRAMAMITY EDUCATION VALLEY, GURGAON, 122413, Haryana



ACKNOWLEDGEMENT



India 2030 Knowledge Super Power

"Amity's Mission, Amity's Passion, Amity's Junoon"

NATIONAL BUILDING THROUGH PHILANTHROPY, EDUCATION & RESEARCH

"When God pushes somebody, inspires somebody, leads somebody-no power in the world can stop such a person."

Dr. Ashok K. Chauhan
Founder President
Ritnand Balved Education Foundation
Chairman, AKC Group of Companies

2



ACKNOWLEDGEMENT



Dr. Aseem Chauhan
• The torch bearer
• Dynamic & Innovative Leader
• Taken Amity to the World and World to Amity

"Amity University is an epitome of higher education that blends modernity with tradition and culture, where science and technology blend harmoniously with performance, progression and innovation".

Dr. Aseem Chauhan
Chancellor
Amity University Haryana

3





FROM THE DESK OF VICE CHANCELLOR

Research and Innovation form a strong pillar of strength of a future ready world class university. Further, the R & D and Innovations should be in line with the national missions and should remain relevant to serve the needs of the local and global society.

At AUH, in line with the vision of our Founder President Dr Ashok K Chauhan of Research and Innovation driven Amity University and under the innovative leadership of our Hon'ble Chancellor Dr Aseem Chauhan, R & D and Innovations are pursued with a mission and a passion, our research driven culture motivated and inspired the faculty and research scholars who are devoted and dedicated in cutting edge research and innovations as well as in competitive bidding for funded R & D. I am delighted to mention that from the beginning of 2022, our faculty has received approval for 11 R&D and 5 consultancy projects amounting to approximately 4.5 crores, and R&D projects worth 25 crores plus are already running., along with 27 Patents filed, 7 Copyrights, 9 Patents published along with one trademark registered by the faculty on their industry relevant inventions and around 400 research papers have been published in Reputed Journal and Conferences.

This compendium provides highlights of our R & D Projects, Patents and Research Publications of AUH and is intended to inspire the faculty and students to continue their march on the path to excellence as we firmly believe that the integration of research with education is the surest way to achieve excellence.

I wish to place on record my fullest of appreciation of the commendable leadership provided by our Dean of R & D, Dr Rajendra Prasad, himself a globally renowned scientists and the Hols and their brilliant teams of faculty and research scholars who have exhibited their exemplary performance during 2021-22 and have set high standards of their R & D and innovation performance.

On the Innovation Day 2022, I extend my warm greetings to all Deans, Hols, members of faculty and brilliant Scholars and call up on them to continue to raise the bar of R & D and Innovation at AUH.

Prof (Dr) P. B. Sharma Vice Chancellor Amity University Haryana





MESSAGE FROM PRO VICE CHANCELLOR

The key values of Amity University Haryana include an emphasis on research and innovation. Since its establishment, the university has made enormous strides in its research, and we can be proud of the continual increase in our projects, patent applications, and publication of global standards.

Research-based innovation has a significant role in the overall growth of a society and a country. The commercial enterprise and industry turn to academia for disruptions and cutting-edge technology that can advance them. Research plays a crucial role in developing product conceptions, innovative machinery, industrial designs, and game-changing technologies, positioning the nation on a clear road to advancement on the international stage. Research serves as the underlying support for Amity University Haryana's three pillars of innovation, internationalization, and industry integration.

Innovation measurement and evaluation is a crucial element in assessing any organization's growth. The DRP Report is evidence of the extraordinary effort done by AUH resources who have committed themselves to Research and Development. I am confident in saying that we will continue to set new records and establish ourselves as a bright spot in the academic community globally.

I would like to conclude by quoting Guru Rabindranath Tagore that

"The higher education is that which does not merely give us information but makes our life in harmony with our existence."

Prof. (Dr.) Vikas MadhukarPro Vice Chancellor
Amity University Haryana





MESSAGE FROM DEAN

The Directorate of Research & Publication (DRP) has effectively achieved eight years of guiding and keeping track of the development made by Amity University Haryana's mission on research and innovations drive. DRP is responsible for providing research management, which promote and facilitating leading-edge research, including collaborative and interdisciplinary research; building, and providing sufficient support for, a community of innovative researchers to enhance research capacity at the university and to increase internal and external research opportunities for faculty, post-doctoral fellows, and graduate students; developing networks between the research clusters and researchers in the field in the public and private sectors, nationally and internationally; transferring knowledge to society through outreach. DRP has been able to fulfil its mission in promoting research and innovation apart from ensuring proper implementation of research projects and mobilization of extra-mural research funds to AUH. Our infrastructure is huge with equipped laboratories, highly qualified and motivated faculty, who work with commitment and dedication for the cause of education and research. Our officers and the non-teaching staff work with dedication and commitment. The research output of our post-graduate departments is very good in terms of Ph.D. degrees awarded and research publications in high impact factor journals \with many citations. The goal of the research conducted at AUH, in practically all areas of science and engineering, is to generate new knowledge, but to also apply the discoveries and know-how for the benefit of society. We hope that our sincere endeavors will bring in more funded project grants and recognition in terms of high impact publication and patents.

Prof. (Dr.) Rajendra Prasad

Dean, Faculty of Science, Engineering and Technology Amity University Haryana



CONTENT

Directorate of Research & Publication	8
DRP – Team	9
Research & Development Index	10
Research Highlights	12
MOU signed	19
Resource Mobilization	21
High Impact Factor Journals	36
Patents	39
Copyrights	44
Trademark	46
Award of Ph. D Degree	48
Faculty Award & Recognition	53
Publications	58
Books	59
Research Papers	61
Skill Initiatives	93
National Conference	96
International Visit by Researchers Team	104
Glimpses of Key Events	106



DIRECTORATE OF RESEARCH & PUBLICATION (DRP) AMITY UNIVERSITY HARYANA

The Directorate of Research & Publication (DRP) was established in 2014 at Amity University Haryana (AUH). Since its inception has successfully completed eight years of guiding and keeping track of the progress made by AUH faculty in terms of research and innovations. The Directorate of Research & Publication (DRP) is responsible for providing research leadership, which includes promoting and facilitating leading-edge research, including collaborative and interdisciplinary research; building, and providing sufficient support for, a community of innovative researchers to enhance research capacity at the university and increase internal and external research opportunities for faculty, post-doctoral fellows, and graduate students; developing networks between the research center and researchers in the field in the public and private sectors, nationally and internationally; transferring knowledge to society through outreach.

The Directorate of Research & Publication (DRP) has been able to fulfill its mission of promoting research and innovation apart from ensuring proper implementation of research projects and mobilization of extra-mural research funds to AUH. Most heartening development was that our faculty competed and procured 86+ major grants funded by the Government Funding Bodies such as DBT, DST, SERB, DAE, IUAC, MNRE, Ministry of Aayush, ICMR, etc., and as a resultant during the preceding year more than 36.00 Cr. worth R&D and 4.50 Cr. worth consultancy project were awarded to AUH along with 200+ patents filed nu the university. AUH has successfully achieved 5600+ publications in reputed journals & proceedings with Scopus, WOS Pubmed & SCI indexing. AIB/AIISH and ASAS have competed with a mega infrastructural grant under DST-FIST to help set up an 'Amity Lipidomics Research Facility (ALRF)' and Amity Material Research laboratory in AUH. DST-GOI sanctioned another mega grant under BUILDER program to AUH in 2022.

Amity Lipidomics Research Facility (ALRF) was established at the Amity University, Haryana in 2018, with funding from the Department of Science and Technology (DST-FIST) Gov. of India and Amity University, Haryana. The purpose of establishing this facility is to provide the scientific community (within Amity University and external researchers, both academia and industry) with state-of-the-art mass spectrometric techniques for the separation, identification, and quantitation of biomolecules like lipids, metabolites, and proteins.

Amity Materials Research Facility (AMRF), established at Amity University Gurugram in 2020, with funding from Department of Science and Technology (DST-FIST) Govt. of India and Amity University Haryana, is open to usage by scientific community and industry people. The purpose of establishing this facility is to provide the scientific community (within Amity University and external researchers, both academia and industry) with state-of-the-art Particle Size & Zeta Potential Measurement, Thermoanalysis and Spectroscopy Facility for material science research in diverse fields of Applied Sciences.

Directorate of Research & Publication (DRP) has also been able to motivate graduate and postgraduate students to opt for research as their careers. As a result, our students not only have been able to compete for internships in various national educational institutes but could also get better placements in leading organizations. AlB/AlISH is in the process of world-class modular laboratories which will provide even more impetus to our research and innovation drive. The impetus provided by DRP has yielded quality publications in high-impact factor journals and books. Few of our publications have also been made to cover pages of these journals. To showcase the excellence in global science, the past year also saw regular visits of galaxies of distinguished guest speakers and in organizing various national and international meetings in AUH. Our students and faculty were also invited to several national and international meetings where they presented their research, chaired sessions, and fetched awards. The Directorate of Research & Publication (DRP) has been able to promote and manage the research and innovation drive of AUH, however, there is more to be done. We hope that our efforts will bring in more extra-mural grants and laurels in terms of quality publication and patents.

DIRECTOR CHAIRPERSON



DRP - TEAM

CHAIRPERSON

Prof. Rajendra Prasad, Ph.D, FNASc, FASc, FNA Dean, Faculty of Science, Engineering, and Technology Research Coordinator, Amity University Haryana

DIRECTOR

Dr. Machiavelli Singh, Ph. D, UNDP Fellow Director, Directorate of Research & Publication Research Coordinator, Amity University Haryana

MEMBERS

- Dr. Sunil Sikka Associate Professor, ASET
- Dr. Luxita Sharma Associate Professor, AMS
- Dr. Anurag Sharma Assistant Professor, AIB
- Dr. Saba Jafri Assistant Professor, ABS
- Ms. Toshi Rattan Assistant Professor, ALS
- Dr. Deepika Pandey Assistant Professor, ASEES
- Dr Arun Kumar Assistant Professor, AIP

COORDINATORS

- Dr Rishi Manrai Assistant Professor, ABS
- Dr Savita Maan Assistant Professor, ABS
- Dr. Amrit Kumar Assistant Professor, ACOAST
- Ms. Kamakshi Mehta Assistant Professor, ACC
- Dr. Hariprasath Pandurangan Assistant Professor, ACON
- Dr. Lokesh Gupta Assistant Professor, AIBAS
- Dr Vaibhav Kapuria Associate Professor, AIB
- Ms. Nidhi Mehta Assistant Professor, AICP
- Dr. Deepa Suhag Assistant Professor, ACNT

- Dr Arun Kumar Assistant Professor, AIP
- Dr. SK Tripathi
 Associate Professor, ALS
- Dr. Luxita Sharma Associate Professor, AMS
- Dr. Dipti Vaya Associate Professor, ASAS
- Dr. Amit Chawla Professor, ASCO
- Dr. Puja Singh Assistant Professor, ASEES
- Dr Manoj Kumar Kashyap Associate Professor, AISC
- Dr Shweta Sinha Associate Professor, ASET
- Dr Suniti Sood Associate professor, ASFDT

- Mr. Rakesh Kumar Chaudhary Assistant Professor, ASFA
- Dr. Ruchika Kulshreshtha Assistant Professor, ASH
- Dr Anshu Shekhar Assistant Professor, ASL
- Dr. Parul Yadav Associate Professor, ASLA
- Dr. Tanushri Purohit Associate Professor, ASI
- Dr. Sanjna Vij Program Director, AASC
- Ms. Shaivy Sharma Coordinator, OIA
- Dr. Kumud Dhanwantri Assistant Professor, ASAP

OFFICE STAFF

Mr. Sonu Kumar, Sr. Office Assistant, DRP



RESEARCH & DEVELOPMENT INDEX



AMITY UNIVERSITY HARYANA RESEARCH & DEVELOPMENT INDEX

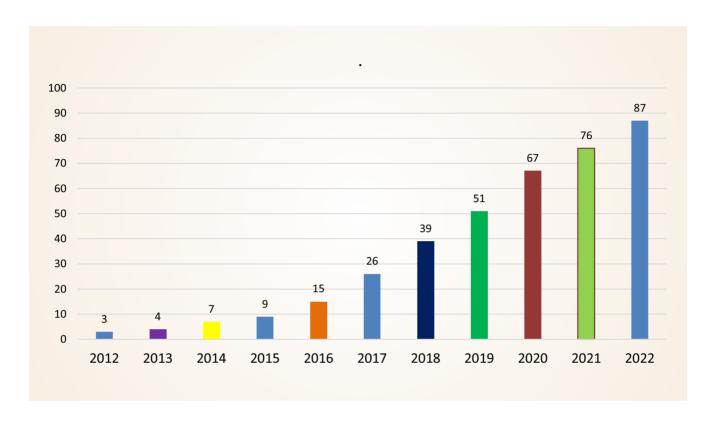
Particulars	No.
Research Students	656
Ph.D. Awarded	142
Extra Mural R&D Projects	87 (36.49 Cr)
Consultancy Projects	52 (4.63 Cr)
Completed R&D Projects	40 (12.47 Cr)
Submitted Project	544 (337 Cr)
Patents Filed	207
Patent Published	133
Copyrights	10
Books/Chapters	522
Conference/ Proceedings	1084
Article/Newspapers/Magazines//News Letter	207
Research Articles	3902
Total Publication	5715
Scopus listed Publication	1652
Citations (Scopus)	11252
AUH Scopus h Index	42



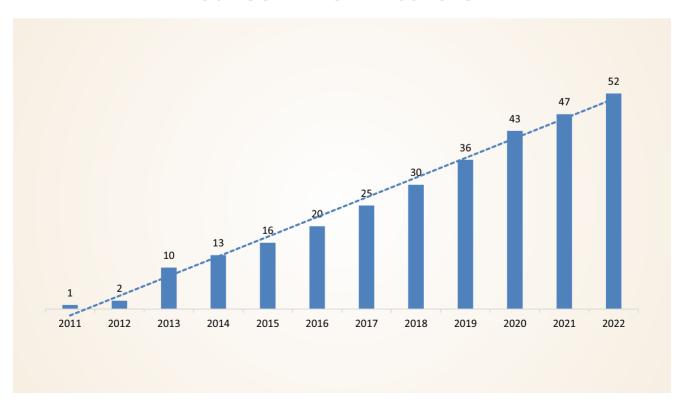
RESEARCH HIGHLIGHTS



EXTRA MURAL R & D PROJECTS



CONSULTANCY PROJECTS

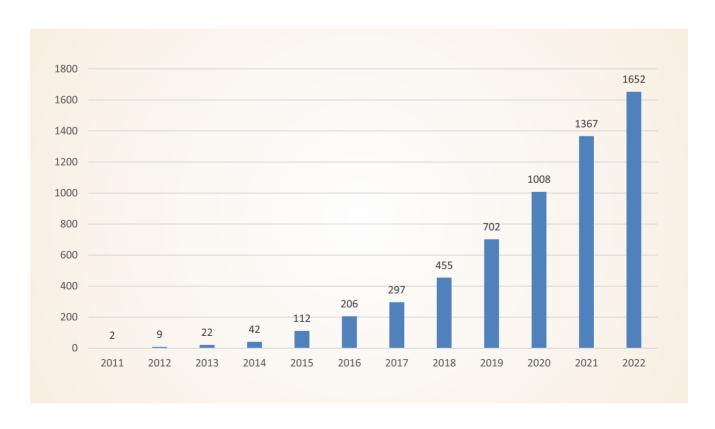




SUBMITTED R & D PROJECTS



SCOPUS LISTED PUBLICATION (1652)

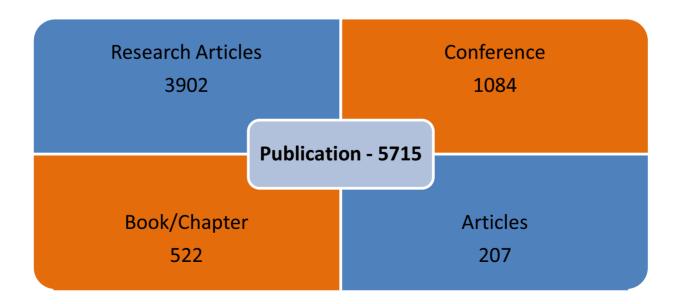




YEAR WISE PUBLICATION

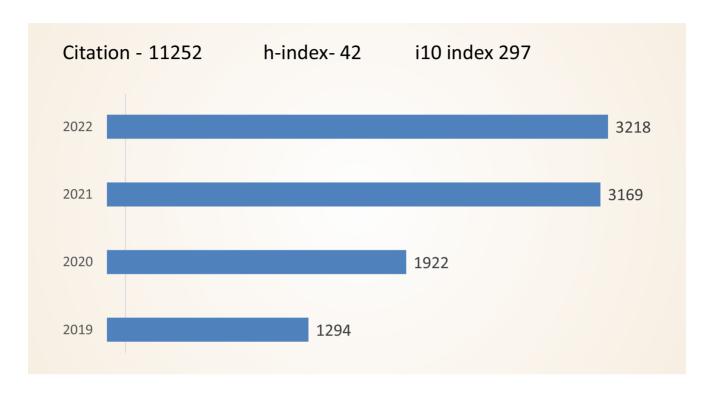


NEWS ARTICLES, BOOK CHAPTERS, CONFERENCE PROCEEDINGS & RESEARCH ARTICLES

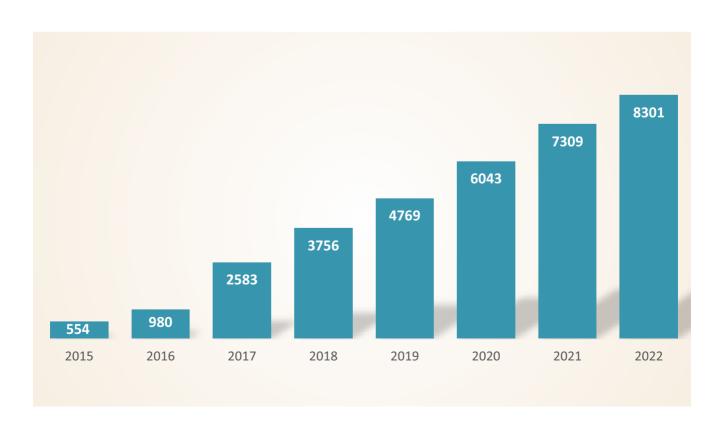




SCOPUS CITATIONS



CUMULATIVE IMPACT FACTOR

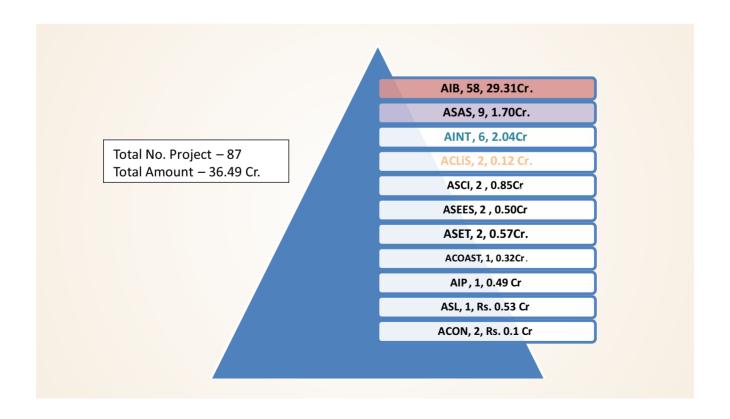




PATENTS: PUBLISHED & FILED



R&D PROJECT DETAILS DEPT. WISE





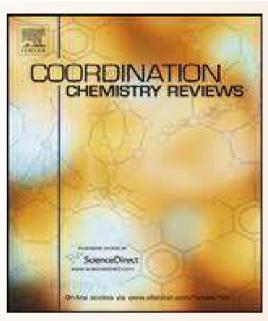
HIGHEST IMPACT FACTOR

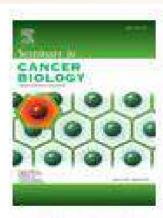


Dr. Gyandshwar K. Rao ASAS



24.833

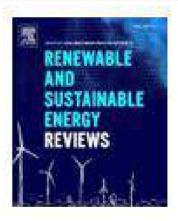




IF-15.7 **Dr. Amit K. Pandey**



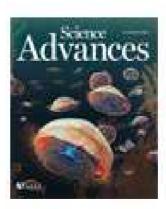
IF-15.3 Dr. Ujjaini Dasgupta Dr. Ravi D Sharma



IF - 14.9 **Ms. Ambika Devi**



IF - 14.3 **Dr. Rajendra Prasad**



IF - 13.1 **Dr. Ravi D Sharma**



MoU SIGNED



MoUs SIGNED (JUL 21 - JUN 22)

Organisation	Date of Sign.
Manas Foundation.	02-Jul-21
Defence Institute of Advanced Technology, Pune	17-Aug-21
Paras Healthcare Pvt. Ltd.	08-Sep-21
We, The People Abhiyan.	30-Sep-21
InnoDx Solutions Pvt. Ltd.	28-0ct-21
Faculty of Legal Studies, Motherhood University, Roorkee	03-Jan-22
Global Health Ltd (Medanta) Nursing.	01-Feb-22
TATA 1 MG Healthcare	04-May-22
M/S S K Enterprises.	01-Apr-22
AIESEC in Delhi University.	27-Apr-22
Amplifon (India) Pvt. Ltd.	18-May-22
Karat Lawz Academy.	07-Jul-22
Life Sciences Sector Skill Development Council (LSSSDC)	15-Jul-22
India Meteorological Department, New Delhi.	19-Jul-22
Aarvy Healthcare Super Speciality Hospital, Gurugram	07-Sep-22





1. Project Title- "Fund for Improvement of S&T infrastructure in University and Higher Education Institution (FIST) Programme-2016"

Pl: Prof. Rajendra Prasad Funding Agency: FIST-2016 Sanctioned Amount: 16500000



2. Project Title- "Evaluation antimycobacterial potential of Unani drugs Qurs-e-Sartan Kafoori and Sharbat-eEjaz-A Mechanistic Approach"

Pl: Dr. Zeeshan Fatima Funding Agency: AYUSH Sanctioned Amount: 4789970



3. Project Title- "Comprehensive Omics studies to understand the biology of drug resistant Mycobacterium tuberculosis clinical isolates from Arunachal Pradesh"

PI: Dr. Zeeshan Fatima Funding Agency: DBT Sanctioned Amount: 4228000



4. Project Title- "Study of in-depth genetic heterrogeneeity with respect to resistance and compensatory adaption of MDR Mtb clinically strains inside BM-Mesenchymal stem cells circulating in the North East Region"

PI: Prof. Rajendra Prasad Funding Agency: Prof. Rajendra Prasad

Sanctioned Amount: 5435992



5. Project Title- "Combating topical & medical devicerelated fungal infections using engineered Anti-fungal hydrogels"

PI : Prof. Rajendra Prasad & Dr. Ujjaini Dasgupta

Funding Agency: DBT







6. Project Title- "Evaluation of the Nrf2 anti-oxidant response element (ARE) pathway as a promising target for alleviating chemoresistance in treatment of Acute Lymphoblastic Leukemia"

PI: Dr. Munindra Ruwali Funding Agency: SERB-TARE Sanctioned Amount: 1830000



7. Project Title- "One-Asian Community Theory"

PI: Dr. Santosh K. Gupta

Funding Agency: One Asia Foundation, Tokyo, Japan

Sanctioned Amount: 5307375



8. Project Title- "Mediating Multilingualism - (in a local community context) Phase I"

PI: Prof. Udaya Narayana Singh Funding Agency: University of Highlands & Islands,

Scotland, UK

Sanctioned Amount: 1180920



9. Project Title- "Nanotechnology for Healthcare and Environment - Exploring New Horizons"

PI: Prof. Atul Thakur (ASAS Dept.) Funding Agency: FIST-2018 Sanctioned Amount: 8400000



10. Project Title- "Identifying the role of P53 regulated long non-coding RNAs (LncRNAs) by Crispr/Cas9 in ovarian cancer"

PI : Dr. Amit Kumar Pandey Funding Agency: ICMR





11. Project Title- "Understanding Wnt Pathway and LncRNAs interaction for the identification of novel therapeutic targets in triple-negative breast cancers"

PI : Dr. Amit Kumar Pandey Funding Agency: DST

Sanctioned Amount: 3778179



12. Project Title- "Mitigating the impact of antifungal resistance in the emerging pathogen candida auris by piggybacking its peptide permease as an antifungal delvery system"

PI: Dr. Atanu Banerjee Funding Agency: SERB Sanctioned Amount:323231



13. Project Title- "Fabrication of the portable low cost pointof-care optical device for the screening of thalassemic career"

PI: Dr. Ranjita Ghosh Moulick Funding Agency: DST

Sanctioned Amount: 1460000



14. Project Title- "Unraveling the molecular mechanism of IncRNAs involvement in Glioblastoma"

PI: Dr. Amit Kumar Pandey Funding Agency: DST-RSF Sanctioned Amount: 7174032



15. Project Title- "A nanobionic approach for enhancement of plant photosynthesis and growth by augmenting chloroplast mediated photon absorption"

PI: Dr. Sumistha Das & Dr. Nitai Debnath Funding Agency: DST-Nanomission Sanctioned Amount: 4550000







16. Project Title- "Experimental validation of pre-identified candidate genes regulating protein storage in chicphea seeds"

PI: Dr. Kaustav Bandyopadhyay

Funding Agency: SERB

Sanctioned Amount: 3199735



17. Project Title- "Developing small molecule inhibitors to target non-genomic androgen signaling and elucidating the role of GPR56 in Prostate Cancer"

PI : Dr. Gargi Bagchi

Funding Agency: DST-SERB Sanctioned Amount: 4637570



18. Project Title- "Investigating of the role of LncRNA PANDAR in the progression and metastasis of ovarian cancer"

PI: Dr. Amit Kumar Pandey Funding Agency: ICMR EMR Sanctioned Amount: 3000000



19. Project Title- "DHR-Identification of Sphingolipid-based Biomarkers for Triple Negative Breast Cancer (TNBC) and Luminal A Patients and their 72 Clinicopathological Correlation"

PI : Dr. Ujjaini Dasgupta Funding Agency: ICMR

Sanctioned Amount: 4700000



20. Project Title- "A low cost portable microfluidics embedded on chiprRT-PCR and microelectrode array coupled point-of care optoelectronic device for large scale screening of emerging viral disease like SARS COV2"

PI: Dr. Ranjita Ghosh Moulick Funding Agency: BIRAC, DBT Sanctioned Amount: 9000000





21. Project Title- "PG Teaching in Biotechnology (M.Sc. in Biotechnology) approved by DBT for GAT-B national based admissions"

PI: Prof. Rajendra Prasad

Funding Agency: DBT for GAT-B national based admissions

Sanctioned Amount: 13000000



22. Project Title- "Fabrication of Realtime in planta biosensors for presymptomatic detection of heavy metal toxicity"

PI: Dr. Ranjita Ghosh & Dr. Kaustav Bandyopadhyay

Funding Agency: DBT,

Sanctioned Amount: 6500000 (Proposed)





23. Project Title- "To study the dynamics of sickling inside blood capillary mimicking microfluidic system to fabricate a portable point-of-care electronic device for the detection of sickle cell disease"

PI: Dr. Ranjita Ghosh Moulick Funding Agency: ICMRASET Sanctioned Amount: 1000000



24. Project Title- "Human lacrimal gland regeneration: a study of the existing technological advancements and development of next generation solutions by tissue engineering and regenerative medicine"

PI : Dr. Vimal Kishor Singh Funding Agency: SERB

Sanctioned Amount: 4367888



25. Project Title- "Differential Inhibition of Visfatin-PAK4 as a Novel Strategy in Esophageal Squamous Cell Carcinoma for Therapeutic Purpose"

PI: Dr. Manoj K Kashyap & Dr. Suresh Kr. Kalangi

Funding Agency: ICMR







26. Project Title- "Identification ofbiomarker candidate for early diagnosis of myocardial reperfusion injury andreoccurrence centralizing GSK3β using metanalysis"

PI- Dr. Arun Kumar, Dr. Satish Sardana

Funding Agency: ICMR EMR Sanctioned Amount: 4900000





27. Project Title- "Decelopment of onspot diagnostic kit for COVID19 based on RT-LAMP Integrated CRISPR-Cas technique"

PI- Dr. Saif Hameed & Dr. Zeeshan Fatima

Funding Agency: BRNS

Sanctioned Amount: 1656550





28. Project Title- "DBT-BUILDER Level I.

PI : Dr. Rajendra Prasad Funding Agency: DBT

Sanctioned Amount: 1.6 Crore



29. Project Title- "A Mass Spectrometric Approach to Unravel the Landscape of Sphingolipids as Major Signaling Determinants of Drug Resistance and Virulence in Emerging Human Fungal Pathogen Candida auris."

PI- Dr Rajendra Prasad Funding Agency: DBT

Sanctioned Amount: 8425600



30. Project Title- "Novel Nanoarchitectures for selective multistep catalysis"

PI- Dr. Anirban Das

Funding Agency: SERB, DST Sanctioned Amount: 1830000





31. Project Title- "DBT Skill Vigyan Programme under state partnership in Life Science and Biotechnology"

PI- Dr Rajendra Prasad Funding Agency: DBT

Sanctioned Amount: 12300000



32. Project Title- "Regulation of ribosome biogenesis and SOS response by cyclic di-AMP in Mycobacterium"

PI: Dr. Krishna Murari Sinha Funding Agency: SERB

Sanctioned Amount: 5786258



33. Project Title- "Insights into the efflux pump arsenal of the emerging pathogen C. auris and its implication in high order of antifungal resistance and virulence"

PI: Dr. Rajendra Prasad & Dr. Atanu Banerjee

Funding Agency: DBT

Sanctioned Amount: 5489236





34. Project Title- "Defining the role of nutrient-sensitive O-GlcNAc modification in Hepatocellular Carcinoma"

PI : Dr. Vaibhav Kapuria Funding Agency: SERB

Sanctioned Amount: 3000000



35. Project Title- "Elucidation of the Role of UDP-Glucose Ceramide Glucosyltransferase (UGCG) in mTORC2-Mediate Regultion of Sphingolipid Biosynthesis."

PI : Dr. Ujjaini Das Gupta Funding Agency: DBT





36. Project Title- "Capacity Building and Personality Development Program (PDP) for female undergraduate and Postgraduate students at AUH"

PI : Dr. Rajesh Nair

Funding Agency: National Commission for WomenSanctioned Amount: 150000



37. Project Title- "Elucidating the role of posttranscriptional regulation of sphingolipid metabolic genes in breast cancer progression."

PI: Dr.Ujjaini Das Gupta Funding Agency: SERB

Sanctioned Amount: 6980724



38. Project Title- "Development of biomimicking polymeric scaffolds for accelerated wound healing and sustained drug release: Preclinical studies in radiation impaired surgical wounds in cancer"

PI : Dr.Deepa Suhag Funding Agency: ICMR

Sanctioned Amount: 3500000



39. Project Title- "A study on the problems and conjectures in univalent function theory"

PI: Dr Navneet Lal Sharma Funding Agency: SERB, DST Sanctioned Amount: 2123264



40. Project Title- "Development of RT-LAMP integrated CRISPR-Cas based rapid and sensitive diagnostic kit for tuberculosis"

PI: Dr. Saif Hameed & Dr. Zeeshan Fatima

Funding Agency: ICMR







41. Project Title- "Understanding the mutational landscape in different Candida auris clades using a multipronged approach"

PI : Prof. Rajendra Prasad Funding Agency: ICMR

Sanctioned Amount: 3834200



42. Project Title- "Mass spectrometry based identification and characterization of mycolic acid lipid biomarkers and their application for development of a lateral flow POC device for tuberculosis diagnosis."

PI : Dr. Zeeshan Fatima & Dr. Saif Hameed

Funding Agency: ICMR

Sanctioned Amount: 5700000





43. Project Title- "Identification of early diagnostic biomarker for GBM using differential alternative splicing and deep learning"

PI : Dr. Ravi Dutt Sharma & Dr. Amresh Prakash

Funding Agency: ICMR

Sanctioned Amount: 4768526





44. Project Title- "Identifying and Establishing Bioactive Lipids as Non-invasive Biomarkers for Nonalcoholic Fatty Liver Disease (NAFLD) Progression."

PI: Dr Ujjaini Dasgupta Funding Agency: ICMR

Sanctioned Amount: 5100000



45. Project Title- "Development and preclinical Evaluation of Bio-synthetic polysccharide rich hydrogels as ECM biomimics to understand metastatics malrisome in tumor micro environment and predict drug efficacy in 3D tripple negative breast tumor model."

PI : Dr. Deepa Suhag Funding Agency: ICMR





46. Project Title- "Development of Nanomaterials for High Density Application"

PI: Prof. Atul Thakur & Prof. Preeti Thakur Funding Agency: Global Affairs Office. Yuan Ze University Sanctioned Amount: 5009948





47. Project Title- "Co-ordination between interdependent networks: Network-dynamics and emergence of collective phenomena"

PI: Dr. Nirmal Punetha Funding Agency: SERB





SCIENCE & TECHNOLOGY INFRASTRUCTURE







Bionova labs

......











CIRF

Central Instrument Research Facility





The central instrument research facility (CIRF) is housed at Amity University Haryana, Gurugram provides a central facility of latest and advanced analytical instrument for research and for promoting interdisciplinary research. Instruments are manned by qualified personnel. This facility is available for Amitians and other academic research institutions. Industries and organizations.



DST-FIST 2019 Amity Lipidomics Research Facility (ALRF) was established at the Amity University, Haryana, in 2019 with funding from Department of Science and Technology (DST-FIST) and Amity University, Haryana (AUH), on 50% sharing basis.



Amity Lipidomics Research Facility (ALRF)

Impact

https://www.amity.edu/gurugram/lipidomics-research-facility.aspx















Ministry of Science & Technology Department of Science & Technology

R&D Infrastructure Division

"Synergistic Training program Utilizing the Scientific and Technological Infrastructure (STUTI) Program - 2021"



NEW ASSETS OUT OF PROJECT FUNDS





- - t r, KIJHHR H kr, KP Pavillon Laptop (KIKO1.64TX),

- PENDORF (2), BIORAD (1) e, OYLUMPUS CORPORATION
- rella E24 beech top incubator, EPPENDORF DEEP INSTRUMENTS & GHEMICALS NEEGRATED PROGRESSIVE TECHNOLOGY

- rtex Mixture, LACZENE BIOSCIENCE, LABNET (1) intrasMicroscope, TOWAGPTICS INDIA PVT IIIb

- CALS SHONA PVT. CTD. h Impedance analyser. ir. Scrintific & Anaptical Instrument RY BIONICS

- MAJOP OKOMETER, PERSONELMER PTE (ID, SINCAPONE NEW, MARINE ONDIA



HIGH IMPACT PUBLICATIONS



S.No.	Name of Author	Title of the paper	Title of Journal	Year	IF
1.	Sachdeva, Garima & Vaya, Dipti & Srivastava, Chandra & Kumar, Arun & Rawat, Varun & Singh, Mandeep & Verma, Monu & Rawat, Pooja & Rao, Gyandshwar.	Calix[n]arenes and its derivatives as organocatalysts Garima Sachdeva	Coordination Chemistry Reviews	2022	24.83
2.	Aayushi Arora, Siddhant Singh, Preeti Oswal, Divyanshu Nautiyal, Gyandshwar K.Rao , Sushil Kumar, Arun Kumar	Preformed molecular complexes of metals with organoselenium ligands: Syntheses and pplications in catalysis	Coordination Chemistry Reviews	2021	24.83
3.	Sanjay Pal, Nihal Medatwal, Sandeep Kumar, Animesh Kar, Varsha Komalla, Prabhu Srinivas Yavvari, Deepakkumar Mishra, Prasenjit Das, Ravi Datta Sharma, Ujjaini Dasgupta*, Avina*sh Bajaj	A localized chimeric hydrogel therapy combats tumor progression through alteration of sphingolipid metabolism	ACS Publication (The American Chemical Society)	2019	15.881
4.	Pandya G., Kirtonia A., Singh A., Pandey A.K ., Kapoor S., Tandon S., Sethi G., Garg M.	A comprehensive review of the multifaceted role of the microbiota in human pancreatic carcinoma	Seminars in Cancer Biology	2021	15.707
5.	Anuradha Kirtonia , Kavita Gala , Stina George Fernandes , Gouri Pandya1 , Amit Kumar Pandey , Gautam Sethi , Ekta Khattar, Manoj Garg	Repurposing of drugs: An attractive pharmacological strategy for cancer therapeutics	Seminars in Cancer Biology	2021	15.707
6.	Vedagopuram Sreekanth Animesh Kar Sandeep Kumar Sanjay Pal Poonam Yadav Yamini Sharma Varsha Komalla Harsh Sharma Radhey Shyam Ravi Datta Sharma Arnab Mukhopadhyay Sagar Sengupta Ujjaini Dasgupta Avinash Bajaj	Bile Acid Tethered Docetaxelbased Nanomicelles Mitigate Tumor Progression through Epigenetic Changes	Angewandte Chemie	2020	15.3
7.	Ghosh S., Yadav S., Devi A ., Thomas T.	Techno-economic understanding of Indian energy-storage market: A perspective on green materialsbased supercapacitor technologies	Renewable and Sustainable Energy Reviews	2022	14.982
8.	Juhi Sharma, Vinod Kumar, Rajendra Prasad , Naseem A Gaur	Engineering of Saccharomyces cerevisiae as a consolidated bioprocessing host to produce cellulosic ethanol: recent advancements and current challenges	Biotechnology Advances	2022	14.2



S.No.	Name of Author	Title of the paper	Title of Journal	Year	IF
9.	Sakshi Agarwal, Arun Sharma, Rania Bouzeyen, Amar Deep, Harsh Sharma, Kiran K Mangalaparthi, Keshava K Datta, Saqib Kidwai, Harsha Gowda, Raghavan Varadarajan, Ravi Datta Sharma, Krishan Gopal Thakur and Ramandeep Singh	VapBC22 toxin-antitoxin system from Mycobacterium tuberculosis is required for pathogenesis and modulation of host immune response	Science Advances	2020	13.116
10.	Harrys Kishore Charles Jacob, Rossana Signorelli, John Lalith Charles Richard, Tyler Kashuv, Shweta Lavania, Ashley Middleton, Beatriz Aguilar Gomez, Anthony Ferrantella, Haleh Amirian, Junyi Tao, Ayse Burcu Ergonul, Melinda Minucci Boone, Marco Hadisurya, Weiguo Andy Tao, Anton Iliuk, Manoj Kumar Kashyap, Monica Garcia-Buitrago, Rajinder Dawra & Ashok Kumar Saluja	Identification of Novel Early Pancreatic Cancer Biomarkers KIF5B and SFRP2 From "First contact" interactions in the Tumor Microenvironment	Journal of Experimental & Clinical Cancer Research	2022	12.65
11.	Prof. Atul Thakur, Prof. Preeti Thakur	Doping Independent Work Function and Stable Band Gap of Spinel 2 Ferrites with Tunable Plasmonic and Magnetic Properties	Journal in Nanotechnology ACS Nanoletters	2021	11.189
12.	Prof. Atul Thakur, Prof. Preeti Thakur	Visible light assisted photocatalytic degradation of methylene blue dye using Ni doped Co-Zn nanoferrites	Advances in Nano Research	2022	11.43
13.	Mishra C.B., Pandey P., Sharma R.D., Malik M.Z., Mongre R.K., Lynn A.M., Prasad R., Jeon R., Prakash A	Identifying the natural polyphenol catechin as a multi-targeted agent against SARS-CoV-2 for the plausible therapy of COVID-19: An integrated computational approach	Briefings in Bioinformatics	2021	11.6
14.	Dr. Supreet	Recent advances and future perspectives on nanoparticles-controlled alignment of liquid crystals for displays and other photonic devices	Critical Reviews in Solid State and Materials Sciences	2022	10.3
15.	Gadhwal R., Kaushik P., Devi A.	A review on 1D photonic crystal based reflective optical limiters	Critical Reviews in Solid State and Materials Sciences	2022	10.3



PATENTS



S. No.	Name of Inventors	Title	Date of Submission	Application No.
1	Dipti Vaya, Nidhi Verma, Tejpal S Chundawat, AIAS, AUH, Manesar.	A method to present antimicrobial activity of tio2 and zno/go nanomaterial on enterococcus faecails'	29-07-2021	202111034048
2	Arun Kumar Sharma, Ashish Kumar, Gunjan Sharma, Aakash Deep, Md. Sayeed Akhtar, AUH, Manesar	A Male External Urinary Catheter	28-09-2021	202111043895
3	Sanjeev Sharma and Pritam Babu Sharma, ASET, AUH, Manesar	A solar energy and magnetic levitation based copter	01-10-2021	202111044829
4	Ujjaini Dasgupta (AIISH),Trishna Pan (AIB), AUH, Manesar.	A method using alternative splicing of UDP-Glucose Ceramide Glucosyltransferase (UGCG) as a marker for breast cancer diagnosis and prognosis'	06-12-2021	202111056492
5	Anil Soharu, Naveen BP, Arjun Sil, ASET,AUH, Manesar.	'A method for preparing novel composition for fly ash bricks with concrete waste debris and self healing bacteria'	20-12-2021	202111059380
6	Sukhveer Yadav, Sanjeev Sharma, P. B. Sharma, BhupenderSingh, AUH, Manesar campus.	A method for fabrication of aluminium mmcs with different compositions of graphene oxide and graphite	21-12-2021	202111059616
7	Ranjita Ghosh Moulick, Ahana Mukherjee, Jaydeep Bhattacharya, Rajendra Prasad, Atanu Banerjee, AUH, Manesar.	A 2D-materials based nanocomposites as conductive layer for electronic sensing of biofilms dynamics'	25-01-2022	202211004237
8	Arun Kumar Sharma, Ashish Kumar AIP, AUH, Manesar, Kamran Manzoor , Waidha, Apoorv Gupta (REVIANA INNOVA TIONS Pr ivate Limited).	A hybrid molecule for GSK-3β (Inhibition) and NRF-2 (Activation) and preparation method thereof'	17-02-2022	202211008314
9	Nishant Kumar Tripathi,Manish Naagar, Sonia Chalia, Shalini Bhaskar Bajaj, ASET, AUH, Manesar.	A wearable band for miners with iot connectivity'	24-03-2022	202211016614



S. No.	Name of Inventors	Title	Date of Submission	Application No.
10	Preeti Thakur, Shilpa Taneja, Atul Thakur and P. B. Sharma,AINT, AUH, Manesar.	'Nanostructured nd3+ doped nickel zinc-bismuth spinel ferrites'	13-04-2022	202211022067
11	Neha Gahlawat, Preeti Thakur and Atul Thakur, AINT, AUH, Manesar.	'A method for synthesizing nickel doped cobalt ferrite synthesized using green synthesis process'	19-04-2022	202211022880
12	Preeti Thakur, Atul Thakur, P.B. Sharma, AUH, Manesar,Pinki Punia (Guru JambheshwalUniversity of Science & Technology, Hisar, Haryana),AINT, AUH, Manesar	'A method for separating cadmium and chromium heavy metals by ri n nanoferrites'	04-05-2022	202211025971
13	Preeti Thakur, Atul Thakur, AUH, Manesar, Pinki Punia (Guru Jambheshwar University of Science & Technology, Hisar, Haryana) AINT, AUH, Manesar	'A novel method for synthesis and characterization of ca substituted ni zn nano-ferrites'	04-05-2022	202211025970
14	Preeti Thakur, Sonam Kumari (ASAS), Atul Thakur ACNT, AUH, Manesarcampus	'A novel composition of mgzn nanoferrite by using a citrate precursor method'	11-05-2022	202211027191
15	Ajay Kumar Ayyala Kishore, Preeti Thakur, M. S. Prasad (AISST, AUUP, Noida), Atul Thakur, AINT, AUH, Manesar.	'A transversal vfolded microstrip patch antenna and method thereof'	17-05-2022	202211028260
16	Preeti Thakur , Atul Thakur, Sindhu S Nair, AINT, AUH, Manesar.	A novel structure of inverted lead free cs2tibr6 based double perovskite solar cell with various inorganic charge transport	26-05-2022	202211030905
17	Saarthak Kharbanda, Preeti Thakur, Atul Thakur, AINT, AUH, Manesar.	A method for solgel assisted synthesis of bismuth doped magnesium ferrite using white rice powder'	31-05-2022	202211031106
18	Preeti Thakur, Atul Thakur, Dinesh Kumar, P. B. Sharma, AINT, AUH, Manesar.	'An alkaline water cell portable device'	09-06-2022	202211033072
19	Atul Thakur, Chandra Mohan Srivastava, Meenu, Sudip Majumder, G. K. Rao, Manish Shandilya, ASAS, AUH, Manesar.	'A METHOD FOR deciphering THE preservation and stabilization of chlorophyll inzno incorporated gelatinnanocomposite films'	17-06-2022	TEMP/E - 1/39170/202 ⊅ EL



S. No.	Name of Inventors	Title	Date of Submission	Application No.
20	Hon'ble Founder President Dr. Ashok K. Chauhan, Dr. P. B. Sharma, Dr. Indu Shekhar, Dr. Shalini Bhaskar Bajaj, Dr. Manoj Kumar Pandey and Dr. W. Selvamurthy AUH, Gurgaon campus	A system for saccharification, gasification and upgradation of lignocellulose waste for production of green energy	30-06-2022	202211037786
21	Hon'ble Founder President Dr. Ashok K. Chauhan, Dr. P. B. Sharma, Dr. Sanjeev Sharma, Dr. Shalini Bhaskar Bajaj, and Dr. W.Selvamurthy, AUH, Gurgaon	'An electrodebased green coal bed gasifier system'	07-07-2022	202211038879
22	Divya Sharma, Arun Kumar Sharma, Ashish Kumar, Gunjan Sharma, Akash Sharma, Bislal Gupta, Jijivisha, Priyanka Bisht, Shristi Srivastav, Jitennder Singh, Vineet, Yash Kumar, Jeevesh Rustagi, AIP, AUH, Gurugram.	'An advanced dissection assembly and operative station for laboratory animal'	08-07-2022	202211039332
23	Annu Yadav, Monika Sohlot, Sumistha Das, Nitai Debnath, AIB, AUH, Gurugram.	'A carbon quantum dot doped silica coated zinc oxide nanostructure and preparation method thereof'	08-07-2022	202211039331
24	Shashi Bhushan Gupta, Hardial Singh, Sujit kumar, ASET, AUH, Manesar.	'A noiseless silencer assembly by using active method of control of noise'	14-07-2022	202211040391
25	Luxita Sharma , Dhananjay Sharma, Amity Medical School, AUH, Manesar.	'A ficus religiosa soup powder composition with protein isolate and method thereof'	15-07-2022	202211040599
26	Arun Kumar Sharma, Ashish Kumar, Gunjan Sharma, Akash Sharma, Ravina yadav, Bishal Gupta, Jijivisha, Priyanka Bisht, Srishti Srivastav, Jitender Singh, AIP, AUH, Manesar	'A horizontal laminar airflow add- on device'	25-07-2022	202211042530
27	Nisha Yadav, Chandra Mohan Srivastava, Arun Kumar, Gyandshwar Kumar Rao, ASAS, AUH, Manesar. E-mail: gkrao@ggn.amity.edu, Ph:8800108011	A method of preparation of highly stableAg-qds'	28-07-2022	TEMP/E - 1/49009/20 2ው EL



S. No.	Name of Inventors	Title	Date of Submission	Application No.
28	Atul Thakur, Preeti Thakur, Chandra Mohan Srivastava, Sudip Majumder, Deepika Yadav, Sarthak Kharbanda, ASAS AUH, Manesar	A method for preparing pvp silver paste'	03-08-2022	TEMP/E - 1/50639/20 2ው EL
29	Girija Kumari, Vikram Singh.	A silicone-based future face mask and working method thereof'	18-08-2022	202211046977
30	Ashok K. Chauhan, P.B. Sharma, Abhishek Kumar Pandey, Hari Ram Prasad Yadav, Shalini Bhaskar Bajaj, AUH, Manesar.	An ignition device for underground coal gasification and working method thereof'	22-08-2022	202211047700
31	Rupali Sharma, Satish Sardana, Arun Mittal, AIP, AUH, Manesar.	A novel casein phosphopeptide amorphous calcium phosphate (cpp-acp) and stevia rebaudiana self nanoe mulsifying drug delivery system(snedds) based oral care gel formulation'	22-08-2022	202211047699
32	Ajay Kishore Ayyala Kumar, Preeti Thakur, M.S. Prasad,(AUUP, Noida) Atul thakur, AUH, Manesar.	A system for electrogeometrical analysis of transversal-v fold patch antenna'	02-09-2022	202211050211
33	Ankush Vij (University of Petroleum and Energy Studies, Dehradun,), Jitender Kumar, Chander Shekhar, ASAS, AUH, Manesar, Shailendra Kumar (University of Petroleum and Energy Studies, Dehradun).	'A structural, optical, photoluminescence and thermoluminescence evaluation method for lithium doped and copperlithium codopedmg2b2o5 nanophosphors'	08-09-2022	TEMP/E - 1/58893/2022 DEL



COPYRIGHTS



COPYRIGHTS REGISTERED & FILED (JUL 21 - JUN 22)

S.No	Diary No	Title	Name	Status	Filing date
1	26580/ 2021-CO/L	Online health and wellness clinic (ohwc)	Tamil Selvi A., Amity College of Nursing, Amity University Haryana. Ph:9894594932	Registered	1-Nov-21
2	23830/2021 CO/L	Ragi health drink	Prof. (Dr.) Tamil Selvi A, Amity College of Nursing, Amity University Haryana	Registered	1-0ct-21
3	30059/2021 CO/L	lam hcp	Prof. (Dr.) Tamil Selvi A, Amity College of Nursing, Amity University Haryana	Filed	13-Dec-21
4	32059/202 1 CO/L	Home hospital (h2) app'	Prof. (Dr.) Tamil Selvi A, Amity College of Nursing, Amity University Haryana	Filed	31-Dec-21
5	4387/202 2 CO/L	Socio-cultural building traditional folk art museum design	Rahul mehta, AID,AUH, Manesar. Email: rmehta@ggn.amity.edu	Filed	28-Feb-22
6	6243/2022 CO/A	Menswear, 'style no ar0&02'	Suniti Sood, AID, AUH, Manesar E-mail: ssood@ggn.amity.edu, Ph: 9818139995	Filed	23-Mar-22
7	7029/2022 CO/A	Foldable furniture	Pallavi Sharma, Naveena K, Amity School of Architecture and Planning, AUH	Filed	1-Apr-22
8	16462/2022 CO/L	Design prototype for automated segregation of inorganic solid waste components	Dr. Naveen BP, Mohammed Yassen, Department of Civil Engineering, AUH, Manesar campus	Filed	2-Aug-22



TRADEMARK



TRADEMARK FILED (JUL 21 – JUL 22)

S.No	Inventor's Name	Title	Date of Submission	Application No	Response to Examination report efiled on
1	Atul Thakur, AINT, AUH, Manesar.	Nano- Breathe'	10-Aug-21	5082198	09-11-2021



TRADEMARK REGISTRED

Nano-Breathe

Bv

Prof. Atul Thakur
Director
Amity Institute of Nanotechnology
Amity University Haryana
Gurugram

Application no: 5082198







AWARD OF PH.D DEGREE



S. No	Institution	Program	Enrollment Number	Student Name	Ph.D. Guide Name	Year of Completion
1	ABS	Ph.D. in Management	A50030316010	Manoj Kumar Mishra	Prof. (Dr.) Vikas Madhukar	2021
2	AIB	Ph.D. in Biotechnology	A50217317006	Rajesh M	Prof. Rajendra Prasad	2021
3	ASET	Ph.D. in Engineering	A50136414007	Sonal Dahiya	Dr. Karamjit Kaur Sekhon	2021
4	ASEES	Ph.D. in Environmental Sciences	A51661014005	Veeranna Channashettar	Dr. Shaili Srivastava	2021
5	ASET	Ph.D. in Engineering	A501115416008	Quinton Chamunorwa Kanhukamwe	Prof. P. B. Sharma	2021
6	ABS	Ph.D. in Management	A50007815001	Krishan Kumar	Prof. (Dr.) Hemant Sharma	2021
7	ASET	Ph.D. in Engineering	A50136414002	Abhishek Kumar Jain	Dr. Khushboo Tripathi	2021
8	AIB	Ph.D. in Biotechnology	A50230715007	Ashok Kumar	Prof. Rajendra Prasad	2021
9	AIB	Ph.D. in Biotechnology	A50230715004	Deepika Kulshreshtha	Dr. Narendra Kumar	2021
10	ASET	Ph.D. in Engineering	A50136414004	Manjeet Kaur	Dr. Anil Kumar	2021
11	AIIT	Ph.D. in Information Technology	A50136415007	Tarun Bala	Dr. Vivek Jaglan	2021
12	ABS	Ph.D. in Management	A50030314008	Nipun Sharma	Prof. (Dr.) Padmakali Banerjee	2021
13	ASET	Ph.D. in Engineering	A501115416001	Edmund Shingirayi Maputi	Dr. Rajesh Arora	2021
14	ASET	Ph.D. in Engineering	A501115416007	Kudzanayi Chiteka	Dr. Rajesh Arora	2021
15	AIB	Ph.D. in Biotechnology	A50217315001	Ms. Sharda Sharma	Dr. Zeeshan Fatima	2021
16	AIBAS	Ph.D. in Psychology	A50730416005	Sweta Saraff	Prof. (Dr.) Rishipal	2021
17	AIB	Ph.D. in Biotechnology	A50217314001	Julie Pratibha Singh	Dr. Gargi Bagchi	2021
18	AIB	Ph.D. in Biotechnology	A50230714003	Shweta Singh	Dr. Saif Hameed	2021



S. No	Institution	Program	Enrollment Number	Student Name	Ph.D. Guide Name	Year of Completion
19	ASAS	Ph.D. in Mathematics	A51631816001	Sunil Bhardwaj	Dr. Vijay Kumar	2021
20	ASAS	Ph.D. in Physics	A51631416006	Preeti	Dr. Chander Shekhar	2021
21	ASAS	Ph.D. in Mathematics	A51631816005	Monika	Dr. Nahid Fatima	2021
22	AIIT	Ph.D. in Information Technology	A50553614002	V arsha Bhatia	Dr. Vivek Jaglan	2021
23	ABS	Ph.D. in Management	A50030315013	Narender	Dr. Rumki Bandyopadhy	2021
24	ALS	Ph.D. in Law	A50815217001	Govind Kumar Saxsena	Dr. Ajay Kumar Bhatt	2021
25	ABS	Ph.D. in Management	A50030312003	Sunil Kumar Kadiyan	Prof (Dr) Vikas Madhukar	2021
26	ALS	Ph.D. in Law	A50815216001	Yashpal Singh	Dr. Ajay Kumar Bhatt	2021
27	AIIT	Ph.D. in Information Technology	A50136416002	Ankit Dhamija	Dr. Sunil Sikka	2021
28	ASAS	Ph.D. in Chemistry	A51659716001	Pratibha Sharma	Dr. Sudip Majumder	2021
29	ABS	Ph.D. in Management	A50030315001	Satish Kumar	Dr. Deependra Sharma	2021
30	AIB	Ph.D. in Biotechnology	A50230715003	Sonia	Dr. Machiavelli Singh	2021
31	AIB	Ph.D. in Biotechnology	A50217315003	Gunjan Dagar	Dr. Gargi Bagchi	2021
32	AIIT	Ph.D. in Information Technology	A50553615005	Neha	Dr. Vivek Jaglan	2021
33	AIB	Ph.D. in Biotechnology	A50217317007	Syed Bilal Jilani	Prof. (Dr.) Rajendra Prashad	2021
34	AIB	Ph.D. in Biotechnology	A525105717001	Mohit Kumar	Prof. (Dr.) Rajendra Prashad	2021
35	ASAS	Ph.D. in Bio Chemistry	A51684716001	Ishfaq Ahmad Ahanger	Dr. Anurag Sharma	2021
36	ASET	Ph.D. in Engineering	A50136416013	Swati	Dr. Shalini Bhasker Bajaj	2021
37	ACC	Ph.D. in Commerce	A50033216004	Bhawana Choudhary	Dr. K Balanaga Gurunathan	2021
38	AIB	Ph.D. in Biotechnology	A50230716005	Kesiraju Karthik	Dr. Manju Sharma	2022
39	AIB	Ph.D. in Biotechnology	A50217316004	Suraya Muzafar	Prof. (Dr.) Rajendra Prashad	2022
	•	•	•		•	



S. No	Institution	Program	Enrollment Number	Student Name	Ph.D. Guide Name	Year of Completion
40	ASET	Ph.D. in Engineering	A50136416010	Akhil Kaushik	Dr. Vikash Thada	2022
41	ASAS	Ph.D. in Mathematics	A51631816004	Hemant Gandhi	Dr. Dimple Singh	2022
42	ASET	Ph.D. in Engineering	A50136416012	Sugandhi Midha	Dr. Khushboo Tripathi	2022
43	ASET	Ph.D. in Engineering	A50136416011	Satvika	Dr. Vikash Thada	2022
44	AINT	Ph.D. in Nanotechnology	A517105518002	Yepuri Venkatesh	Dr. Brijesh Kumar	2022
45	ASAS	Ph.D. in Physics	A51631417001	Anju Kumari	Dr. Shalendra Kumar	2022
46	AIB	Ph.D. in Biotechnology	A50217316002	Suman Sharma	Prof. (Dr.) Rajendra Prashad	2022
47	AIB	Ph.D. in Biotechnology	A50217315004	Garima shahi	Prof. (Dr.) Rajendra Prashad	2022
48	ASLA	Ph.D. in English	A51832716002	Lalit Kumar Yadav	Prof. (Dr.) Sanjay Kumar Jha	2022
49	AMS	Ph.D. in Hospital Administration	A51364015001	SHEETAL YADAV	Dr. Harish Kumar Satia ProfessorAnd Advisor, AUP Prof. Maj. Gen. (Dr.) Mahavir Singh	2022
50	AIB	Ph.D. in Biotechnology	A50230715005	Garima Choudhary	Dr. Manju Sharma	2022
51	ABS	Ph.D. in Management	A50030312006	Monika Sharma	Prof (Dr) Vikas Madhukar Dr. Neha Bankoti	2022
52	ABS	Ph.D. in Management	A50030315017	Satyam Gupta	Dr. Deependra Sharma Dr. N K Sharma	2022
53	ASLA	Ph.D. in English	A51832816002	Priti Sharma	Prof. (Dr.) Sanjay Kumar Jha	2022
54	AIBAS	Ph.D. in Psychology	A50730416004	Shiwani Nirwal	Prof. (Dr.) Rishipal	2022
55	ASAS	Ph.D. in Physics	A51631318001	Jitender Kumar	Dr. Ankush Vij, Dr. Chander Shekhar	2022
56	AIBAS	Ph.D. in Psychology	A50730416007	Jyoti Sehgal	Dr. Anupama Srivastava	2022



S. No	Institution	Program	Enrollment Number	Student Name	Ph.D. Guide Name	Year of Completion
57	ALS	Ph.D. in Law	A50833417001	Anumeet kaur	Prof. (Dr) Ajay Kumar Bhatt	2022
58	ASLA	Ph.D. in History	A51884215001	Ruchika Sinha	Prof. Kiran Devendra	2022
59	AIBAS	Ph.D. in Psychology	A50708118002	Arati Sharma	Prof. (Dr.) Padmakali Banerjee	2022
60	ASAS	Ph.D. in Mathematics	A51631717001	Sakshi Gupta	Dr. Sunita Kumawat	2022
61	ASAS	Ph.D. in Physics	A51631319002	Shilpa	Prof. Preeti Thakur	2022
62	ASAS	Ph.D. in Chemistry	A51659717001	Sujata Kumari	Dr. Sudip Majumder	2022
63	ABS	Ph.D. in Management	A50030316007	Amarnath Ghosh Dastidar	Prof. (Dr.) Padmakali Banerjee	2022
64	ASCO	Ph.D. in Journalism & Mass Communication	A50460217002	Esha Sinha	Prof. (Dr.) Bhavana Adhikari, Prof. (Dr.) Udaya Narayan Singh	2022
65	ASET	Ph.D. in Engineering	A50136414008	Nisha	Dr. Anil Kumar	2022
66	AIBAS	Ph.D. in Psychology	A50730415002	Kalpna	Dr. Meeta Malhotra	2022
67	ALS	Ph.D. in Law	A50833417003	Atul Jain	Prof. (Dr.) Ajay Kumar Bhatt	2022
68	ALS	Ph.D. in Law	A50833416001	Monica Yadav	Prof. (Dr.) Ajay Kumar Bhatt	2022



FACULTY AWARD & RECOGNITION



S. No.	Institute	Faculty Name	Award	Awarding body	Year
1	AMS	Dr Luxita Sharma	AWARD - Excellence in Outstanding accomplishment	IAPEN - Indian association of Parenteral and Enteral Nutrition	2021
2	ACOAST	Prof. Dr. P.C.S. Devara	Best Research Award	The Award was presented by ScienceFather, Scifax company (Reg. No. 130116), Approved and Registered by Ministry of Corporate Affairs (MCA), Govt. of India.	2021
3	ASFA	Mr. Rakesh Kumar Chaudhary	Art Award	Art freakǥlobal People's Choice Art Award-2021	2021
4	ABS	Dr. Tanushri Purohit	Best Research Award	Best Paper award among 415 papers from 20 countries	2021
5	ACC	Dr. Deepika Dhamija	Women Researcher Award	VDGOOD Technlogy Factory	2021
6	ASFA	Mr. Rakesh Kumar Chaudhary	Top 10 Place in International Art Competition and Exhibition	The Artdom Group, Maharashra	2021
7	AMS	Dr. Luxita Sharma	MGA Award (National Nutrition Icon Award)	Mahanagar Global Achivers Award Session 5	2021
8	ASET/ECE	Dr. Neeraj Gupta	Best Paper Award	Amity Universty Gwalior	2021
9	ASFA	Mr.Vinod Chachere	International nlne Art Exhibition 2021	Eastern Foundation of Art & Culture	2021
10	ASFA	Mr. Abhijit Kumar Mohanty, Rakesh Kumar Chaudhary	Selection for International Art Exhibition	Olympia virtual art exhibition, Tokyo Olympic, Japan	2021
11	ASFA	Mr. Rakesh Kumar Chaudhary	Selection for International Art Exhibition	Olympia virtual art exhibition, Tokyo Olympic, Japan	2021
12	AIB	Ms. Manisha Dagar	The Herbert Tabor Award	The Herbert Tabor, The Journal of Biological Chemistry presents the JBC Herbert Tabor Early Career Investigator Award	2021
13	ACOAST/ ACESH	Prof. Dr. P.C.S. Devara	Jury, AARA Fellows of 2022	Asian Aerosol Research Assembly (FAARA -2022), Elected as Member,Selection Committee of Fellow, Asian Aerosol Research Assembly (FAARA -2022)	2021
14	ASET/CIV IL	Sakshi Gupta	'IGBC Accredited Faculty' certificate	IGBC FDP on Green Buildings & Built Environment held during 02-06 August 2021	2021



S. No.	Institute	Faculty Name	Award	Awarding body	Year
15	ASFA	Rakesh Kumar Chaudhary	Selection for National Art Exhibition	The Bombay Art Society, Mumbai	2021
16	ASFA	Rakesh Kumar Chaudhary	Selection for International Art Exhibition	TURKEY TRISPARTA INTERNATIONAL ISLAND COUNTRY ARTISTS	2021
17	ASFA	Rakesh Kumar Chaudhary & Vinod Chachere	Online Art Exhibition	(Bombay Art Society Webside)	2021
18	ASFA	Rakesh Kumar Chaudhary	Selection for International Art Exhibition	International art competition in red third edition 2021, Varese, Italy	2021
19	ASFA	Vinod Chachere	Gold Category Award	Intrnational Online Summer Expo2021	2021
20	ASFA	Vinod Chachere	Allumini Kalakshetra Award in Professionan Category	Alumni kalakshetra, Balasore, Orisa	2021
21	ACOAST/ ACESH	Mr. Shubhansh Tiwari	Environmentalist Award (Copy Attached)	The Award was presented in October 2021 by the NSDA during the Wirld Environment Summit 2021, held at India International Centre, New Delhi during 13 October 2021.	2021
22	ASFA	Mr. Rakesh Chaudhary	Merit Award Certificate	Merit Award Certificate by Chandigarh University (Encounter with colors)	2021
23	ASAS	Dr Sarika Jain	Best paper presentation award	Punjab engineering college chandigarh and B R Ambedkar national institute of technology Jalandhar	2021
24	ASCO	Dr. Amit Chawla	Keynote Speaker at International Webinar	https://eduigp.com/courses/skills not-degreesthefutureof- employmentglobally/	2021
25	AMS	Dr. Luxita Sharma	Token of Appreciation as a Chairperson	Sarvodya Hospital & Research centre Faridabad	2021
26	ASFA (AID)	Mr. Rakesh Kumar Chaudhary	Appreciation Award	Art novelty gallery aizawl, mizoram	2021
27	ASFA (AID)	Mr. Rakesh Kumar Chaudhary	Artwork selection	Indian Academy of FineArts, Amritsar, Punjab	2021
28	ACC	Ms. CA Kamakshi Mehta	Women Researcher Award	VDGOOD Teshnology Factory; Goa	2021
29	ABS	Prof. Padmakali Banerjee	HIGHER EDUCATION SUMMIT & AWARDS	IMS Ghaziabad (Institute of Management Studies, Ghaziabad)	2021
30	ASCO	Dr. Amit Chawla	Certificate of Recogniation and Keynote address at International Conference organized by IAELT Thailand	IAELT Thailand	2022
31	ASAS/AU H	Dr. Dipti Vaya	Resource Person in Certification Course	Certificate Course on Industrial Waste Managem e t organized by St Xavier College Mumbai	2022



S. No.	Institute	Faculty Name	Award	Awarding body	Year
32	ASFA	Mr. Rakesh Kumar Chaudhary	Digital Art work selection for International Art Exhibition, International Art Exhibition: woman in freedom	Organized by Peru Ministry of Culture	2022
33	ASFA	Mr. Rakesh Kumar Chaudhary	Digital Art work selection for International Art Exhibition	Organized by Jayaraman Oviyakalai Academy	2022
34	ASFA	Mr. Rakesh Kumar Chaudhary	Water color painting selection for National Art Exhibition	Organizer: USTAD ALLAUDDIN KHAN SANGE ET EVAM KALA ACADEMY Bhopal - 462003	2022
35	ASFA	Mr. Rakesh Kumar Chaudhary	Digital Art work selection for International Art Exhibition	Support breast cancer survivor art campaign, Organized by Dr. Dipanker roy	2022
36	ABS	Prof Padmakali Banerjee	Educational excellence	Asia One, Esteemed Jury Award 2022	2022
37	AMS/DAN	Dr. Luxita Sharma	An award in Excellence in Outstanding Accomplishment	Excellence in Outstanding Accomplishment has been conferred upon by Indian Association of Parenteral and Enteral Nutrition (IAPEN) India Association	2022
38	ASCO	Dr. Amit Chawla	Resource person for pre conference workshop organized by AUUP.	Conducted one day præonference workshop on the topic research paper writing at the COMTREP-international conference on communication trends and practices in digital era organized by Amity University Uttar Pradesh Noida on 15/3/2022.	2022
39	ASCO	Dr. Amit Chawla	Certificate of Recognition for Keynote Speaker at the International Conference	Delivered Keynote address at the 2nd Global Educators' Congress on English for International Communication organized by IAELT, Thiland (and other partners) from 25/3/2022 to 28/3/2022 on the toptareer prospects in digital content marketing.	2022
40	AIB	Dr. Amit Kumar Pandey	Best Oral Presentation	Ram Nath Hiralala Jaju Award for best Oral Presentation by Mid Level Scientist	2022
41	AIB	Dr. Chandramani Pathak	Reviewer Recognition Certificate	This certificate is awarded to for serving as a reviewer for Cancer Reports, Willey	2022
42	ASFA	Mr. Rakesh Kumar Chaudhary	International Art Exhibition: World Art Day	Digital Art work selection for International Art Exhibition, IAA India, UNESCO Official Partner and Art and Culture Deptt, Government of Mizoram	2022



S. No.	Institute	Faculty Name	Award	Awarding body	Year
43	ASFA	Mr. Rakesh Kumar Chaudhary	All India Award that is certificate of merit.	Digital Art work selection for International Art Exhibition	2022
44	ASCO	Dr. Amit Chawla	Conferred with 'Best Media Educator Award- Visual Communication' award at 16th Media Excellence Award ceremony organized by Media Federation of India (MFI)	Best Media Educator Award- Visual Communication	2022
45	ASCO	Dr. Amit Chawla	Chief Guest and Chaired conference session of Global Media Education Conclave on 11/04/2022.	Chief Guest and Chaired conference session, 'Time: 7.30 PN onwards The topic of this Session: Role of Media in Identity Construction	2022
46	ASAS	Dr Navneet Lal Sharma	SERB International Research Experience (SIRE) fellowship for the year 20222023 supported by SERB	DST-SERB	2022
47	ASCO	Dr. Preeti Singh	Recorded 3 MOOC's for SWAYAM online courses	Jamia Millia Islamia, New Delhi	2022
48	ACC	Mr Shiv Swaroop Jha	International Teachers Shiromani Awards 2022	Guru Foundation Rohtak, This award has been given for the exemplary contribution and innovative work in the field of Education	2022
49	AIP	Dr Rupali Sharma	Young Scientist Award	Extraordinary work in the field of Healthcare on 11 th June 2022 at MP Council of Science & Technoogy, Bhopal, MP	2022
50	ACOAST/ ACESH	Prof. Dr. P.C.S. Devara	Work Agreement (MoU) between NASA- AERONET, USA and AUH, Gurugram, India	NASA, Greenbelt, MD, USA	2022
51	AIB	Dr. CM Pathak	International Scientist Awards on Engineering, Science and Medicine INSO 2022	Coimbatore, India	2022

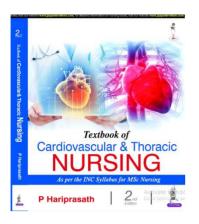


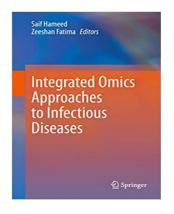
PUBLICATION

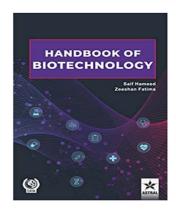


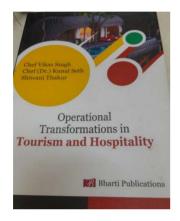
BOOKS





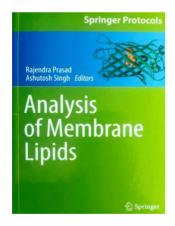


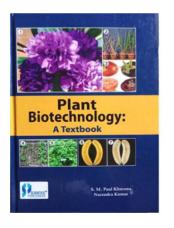




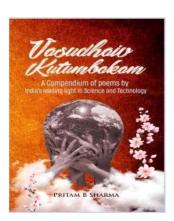


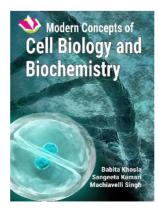


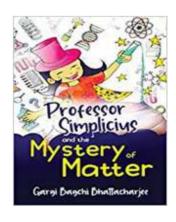














RESEARCH PAPERS



- 1. Yadav K, Yadav D, Yadav R. Xanthine: Synthetic strategy and biological activity. Biointerface Res Appl Chem 2022:12(6):7438-7468.
- 2. Sharma R, Yadav D, Yadav R. Identification of suitable agents against adenine phosphoribosyl transferase for the management of leishmaniasis: Synthesis, characterization and computational studies. Biointerface Res Appl Chem 2022;12(6):7503-7522.
- 3. Shahi G, Kumar M, Skwarecki AS, Edmondson M, Banerjee A, Usher J, et al. Fluconazole resistant Candida auris clinical isolates have increased levels of cell wall chitin and increased susceptibility to a glucosamine-6-phosphate synthase inhibitor. Cell Surf 2022;8.
- 4. Hannachi E, Slimani Y, Nawaz M, Trabelsi Z, Yasin G, Bilal M, et al. Synthesis, characterization, and evaluation of the photocatalytic properties of zinc oxide co-doped with lanthanides elements. J Phys Chem Solids 2022;170.
- 5. Patel HS, Shaikh SJ, Ray D, Aswal VK, Vaidya F, Pathak C, et al. Structural transitions in mixed Phosphatidylcholine/Pluronic micellar systems and their in vitro therapeutic evaluation for poorly water-soluble drug. J Mol Liq 2022;364.
- 6. Ramzan A, Padder SA, Masoodi KZ, Shafi S, Tahir I, Rehman RU, et al. β-Nitrostyrene derivatives as broad range potential antifungal agents targeting fungal cell wall. Eur J Med Chem 2022;240.
- 7. Verma M, Ahmad W, Park J-, Kumar V, Vlaskin MS, Vaya D, et al. One-step functionalization of chitosan using EDTA: Kinetics and isotherms modeling for multiple heavy metals adsorption and their mechanism. J Water Process Eng 2022;49.
- 8. Taneja S, Thakur P, Ravelo B, Thakur A. Nanocrystalline samarium doped nickel-zinc-bismuth ferrites: Investigation of structural, electrical and dielectric properties. Mater Res Bull 2022;154.
- 9. Bhagat DS, Bumbrah GS, Chawla PA, Gurnule WB, Shejul SK. Recent Advances in Synthesis and Anticancer Potential of Triazole-Containing Scaffolds. Anti-Cancer Agents Med Chem 2022;22(16):2852-2875.
- 10. Baluni S, Das S, Yadav VK, Cao J. Lagrange α -Exponential Synchronization of Non-identical Fractional-Order Complex-Valued Neural Networks. Circ Syst Signal Process 2022:41(10):5632-5652.
- 11. Mishra A, Kumari M, Swati, Kumar R, Iqbal K, Thakur IS. Persistent organic pollutants in the environment: Risk assessment, hazards, and mitigation strategies. Bioresour Technol Rep 2022;19.
- 12. Kovalenko TF, Yadav B, Anufrieva KS, Rubtsov YP, Zatsepin TS, Shcherbinina EY, et al. Functions of long non-coding RNA ROR in patient-derived glioblastoma cells. Biochimie 2022;200:131-139.
- 13. Lahariya V, Dhoble SJ. Development and advancement of undoped and doped zinc sulfide for phosphor application. Disp 2022;74.
- 14. Sharma H. Emerging challenges to greening of supply chains: an empirical study. Benchmarking 2022;29(7):2099-2121.
- 15. Negi DP, Abdul Azeez EP. Diminishing traditional methods and inaccessible modern healthcare: the dilemma of tribal health in India. J Health Res 2022;36(5):867-877.
- 16. Kumar K, Chen S-. Group decision making based on improved linguistic interval-valued Atanassov intuitionistic fuzzy weighted averaging aggregation operator of linguistic interval-valued Atanassov intuitionistic fuzzy numbers. Inf Sci 2022;607:884-900.
- 17. Rawat SG, Tiwari RK, Jaiswara PK, Gupta VK, Sonker P, Vishvakarma NK, et al. Phosphodiesterase 5 inhibitor sildenafil potentiates the antitumor activity of cisplatin by ROS-mediated apoptosis: a role of deregulated glucose metabolism. Apoptosis 2022;27(7-8):606-618.
- 18. Goel V, Pandey D, Shukla S. Multiresidue analysis and probabilistic dietary risk assessment of 241 pesticides in wheatgrass (Triticum sp.) using LC-MS/MS in combination with QuEChERS extraction. Biomed Chromatogr 2022;36(8).
- 19. Ali A, Ara A, Kashyap MK. Gut microbiota: Role and Association with Tumorigenesis in Different Malignancies. Mol Biol Rep 2022;49(8):8087-8107.



- 20. Behl T, Arora A, Sehgal A, Singh S, Sharma N, Bhatia S, et al. Molecular and Biochemical Pathways Encompassing Diabetes Mellitus and Dementia. CNS Neurol Disord Drug Targets 2022;21(7):542-556.
- 21. Bhatt A, Fatima Z, Ruwali M, Misra CS, Rangu SS, Rath D, et al. CLEVER assay: A visual and rapid RNA extraction-free detection of SARS-CoV-2 based on CRISPR-Cas integrated RT-LAMP technology. J Appl Microbiol 2022;133(2):410-421.
- 22. Kala D, Sharma TK, Gupta S, Saini RV, Saini AK, Alsanie WF, et al. Development of paper-based DNA sensor for detection of O. tsutsugamushi using sustainable GQDs@AuNPs nanocomposite. Chemosphere 2022;300.
- 23. Punia P, Bharti MK, Dhar R, Thakur P, Thakur A. Recent Advances in Detection and Removal of Heavy Metals from Contaminated Water. ChemBioEng Rev 2022;9(4):351-369.
- 24. Arora A, Rao GK, Kumar A. Suzuki-Miyaura Coupling: A Field of Uninterrupted Research Since 1979. Mini-Rev Org Chem 2022;19(5):549-551.
- 25. Bhatt A, Fatima Z, Ruwali M, Hameed S. An Inventory of Diagnostic Tools for Detection of COVID-19. Curr Mol Med 2022;22(7):608-620.
- 26. Kanthecha DN, Bhatt BS, Patel MN, Vaidya FU, Pathak C. DNA interaction, anticancer, cytotoxicity and genotoxicity studies with potential pyrazine-bipyrazole dinuclear μ-oxo bridged Au(III) complexes. Mol Diversity 2022;26(4):2085-2101.
- 27. Sarkar M, Sharma H, Singh P, Ranu R, Sharma RD, Agrawal U, et al. Progesterone limits the tumor-promoting effects of the beta-subunit of human chorionic gonadotropin via non-nuclear receptors. iScience 2022;25(7).
- 28. Kumar A, Dhameliya TM, Sharma K, Patel KA, Hirani RV, Bhatt AJ. Sustainable approaches towards the synthesis of guinoxalines: An update. J Mol Struct 2022;1259.
- 29. Dutta J, Priyanka. A facile approach for the determination of degree of deacetylation of chitosan using acid-base titration. Heliyon 2022;8(7).
- 30. Hans S, Fatima Z, Ahmad A, Hameed S. Magnesium impairs Candida albicans immune evasion by reduced hyphal damage, enhanced β-glucan exposure and altered vacuole homeostasis. PLoS ONE 2022;17(7 July).
- 31. Chiteka K, Madiye L, Chingosho H, Arora R, Enweremadu CC. A numerical modelling approach for the optimisation of photovoltaic installations in the mitigation of thermal effects. Sci African 2022;16.
- 32. Shahi G, Kumar M, Khandelwal NK, Banerjee A, Sarkar P, Kumari S, et al. Inositol Phosphoryl Transferase, lpt1, Is a Critical Determinant of Azole Resistance and Virulence Phenotypes in Candida glabrata. J Fungi 2022:8(7).
- 33. Qadri H, Haseeb Shah A, Ahmad Mir M, Fazal Qureshi M, Prasad R. Quinidine drug resistance transporter knockout Candida cells modulate glucose transporter expression and accumulate metabolites leading to enhanced azole drug resistance. Fungal Genet Biol 2022;161.
- 34. Joshi T, Parkash O, Krishan G. CFD modeling for slurry flow through a horizontal pipe bend at different Prandtl number. Int J Hydrogen Energy 2022;47(56):23731-23750.
- 35. Kirtonia A, Pandey AK, Ramachandran B, Mishra DP, Dawson DW, Sethi G, et al. Overexpression of laminin-5 gamma-2 promotes tumorigenesis of pancreatic ductal adenocarcinoma through EGFR/ERK1/2/AKT/mTOR cascade. Cell Mol Life Sci 2022;79(7).
- 36. Banerjee A, Rahman H, Prasad R, Golin J. How fungal multidrug transporters mediate hyper resistance through DNA amplification and mutation. Mol Microbiol 2022;118(1-2):3-15.
- 37. Preeti, Pandey A, Selvamani R, Gupta SM, Shekhar C. Synthesis, structural and dielectric studies of magnetoelectric lead nickel niobate ceramics. J Aust Ceram Soc 2022;58(3):963-972.
- 38. Kumar K, Chen S-. Group decision making based on advanced intuitionistic fuzzy weighted Heronian mean aggregation operator of intuitionistic fuzzy values. Inf Sci 2022;601:306-322.
- 39. Punia P, Aggarwal RK, Kumar R, Dhar R, Thakur P, Thakur A. Adsorption of Cd and Cr ions from industrial wastewater using Ca doped Ni–Zn nanoferrites: Synthesis, characterization and isotherm analysis. Ceram Int 2022;48(13):18048-18056.



- 40. Dayakar A, Shanmukha KD, Kalangi SK. Spectrum of microRNAs and their target genes in cancer: intervention in diagnosis and therapy. Mol Biol Rep 2022;49(7):6827-6846.
- 41. Arora A, Oswal P, Rao GK, Kumar S, Singh AK, Kumar A. Tellurium-Ligated Pd(II) Complex of Bulky Organotellurium Ligand as a Catalyst of Suzuki coupling: First Report on In Situ Generation of Bimetallic Alloy 'Telluropalladinite' (Pd9Te4) Nanoparticles and Role in Highly Efficient Catalysis. Catal Lett 2022;152(7):1999-2011.
- 42. Prasad R, Banerjee A. A Chemogenomic Toolkit to Evaluate the "Ins and Outs" of Yeast Plasma Membrane Transporters. mBio 2022;13(3):e0095522.
- 43. Yadav R, Chundawat TS, Surolia PK, Vaya D. Photocatalytic Degradation of Ortho-Nitrophenol using ZnO-β-CD Nanocomposite. ChemistrySelect 2022;7(23).
- 44. Kalangi SK, Bhosale R. Editorial: New Approaches in Toxicity Testing of Nanotherapeutics. Front Pharmacol 2022;13.
- 45. Verma N, Chundawat TS, Surolia PK, Vaya D. Photocatalytic Reduction of Cr VI by TiO2/GO Nanocomposite. ChemistrySelect 2022;7(22).
- 46. Kumar A, Dhameliya TM, Sharma K, Patel KA, Hirani RV. Environmentally Benign Approaches towards the Synthesis of Quinolines. ChemistrySelect 2022;7(22).
- 47. Kumari S, Sharma C, Satrawala N, Srivastava AK, Sharma KN, Joshi RK. Selenium-Directed Ortho C-H Activation of Benzyl Selenide by a Selenated NHC-Half-Pincer Ruthenium(II) Complex. Organometallics 2022;41(11):1403-1411.
- 48. Fadnavis S, Chavan P, Joshi A, Sonbawne SM, Acharya A, Devara PCS, et al. Tropospheric warming over the northern Indian Ocean caused by South Asian anthropogenic aerosols: Possible impact on the upper troposphere and lower stratosphere. Atmos Chem Phys 2022;22(11):7179-7191.
- 49. Nighot D, Jain AK, Ali I, Rawat V. One-Pot Access to 2-oxazolines via a Castro-Stephens Coupling and Intramolecular Cyclization. Curr Organocatalysis 2022;9(2):172-178.
- 50. Yadav P, Ghosh S. Numerical Studies of settling of an impermeable and permeable planktonic particle using Immersed boundary method (IBM). Eur Phys J Plus 2022;137(6).
- 51. Kumar A, Gupta R, Sharma J. Electromagnetic Weibel instability in spatial anisotropic electron-ion plasmas. AIP Adv 2022;12(6).
- 52. Khatoon R, Sharma S, Prasad R, Lynn AM, Prakash A, Banerjee A. Genome-wide analysis of PTR transporters in Candida species and their functional characterization in Candida auris. Appl Microbiol Biotechnol 2022;106(11):4223-4235.
- 53. Seema, Sharma A, Zaidi B, Kashyap S, Shekhar C. Thermodynamic modeling of Si–Zn nano-phase diagram including shape effect. J Nanopart Res 2022;24(6).
- 54. Tyagi B, Gupta B, Khatak D, Meena R, Shekhar Thakur I. Genomic analysis, simultaneous production, and process optimization of extracellular polymeric substances and polyhydroxyalkanoates by Methylobacterium sp. ISTM1 by utilizing molasses. Bioresour Technol 2022;354.
- 55. Barooah B, Dar MA, Thakur IS, Kaushik G. Biochemical effects of three personal care products on growth and development in Cicer arietinum (chickpea) and Vigna aconitifolia (moth bean). Bioresour Technol Rep 2022;18.
- 56. Ghosh S, Yadav S, Devi A, Thomas T. Techno-economic understanding of Indian energy-storage market: A perspective on green materials-based supercapacitor technologies. Renewable Sustainable Energy Rev 2022;161.
- 57. Naveen BP, Fard MK. Estimation of Methane Emission and Electricity Generation Potential from Mavallipura Landfill Site, India. Iran J Sci Tech Trans Civ Eng 2022;46(3):2531-2541.
- 58. Kumar K, Chen S-. Group decision making based on q-rung orthopair fuzzy weighted averaging aggregation operator of q-rung orthopair fuzzy numbers. Inf Sci 2022;598:1-18.



- 59. Maheshwari N, Thakur IS, Srivastava S. Role of carbon-dioxide sequestering bacteria for clean air environment and prospective production of biomaterials: a sustainable approach. Environ Sci Pollut Res 2022;29(26):38950-38971.
- 60. Yadav R, Chundawat TS, Surolia PK, Vaya D. Photocatalytic degradation of textile dyes using β-CD-CuO/ZnO nanocomposite. J Phys Chem Solids 2022;165.
- 61. Gupta R, Mehrotra D, Tyagi RK. Hybrid edge-based fractal image encoding using K-NN search. Multimedia Tools Appl 2022;81(15):21135-21154.
- 62. Ravelo B, Rahajandraibe W, Guerin M, Agnus B, Thakur P, Thakur A. 130-nm BiCMOS design of low-pass negative group delay integrated RL-circuit. Int J Circuit Theory Appl 2022;50(6):1876-1889.
- 63. Kumari A, Karnatak M, Singh AS, Hassam M, Rawat V, Islam MS, et al. Mechanistic Evaluation of the Stability of Arylvinyl-1,2,4-trioxanes under Acidic Conditions for Their Oral Administration as an Antimalarial Drug. ACS Omega 2022;7(21):17984-17994.
- 64. Alshanwani AR, Hagar H, Shaheen S, Alhusaini AM, Arafah MM, Faddah LM, et al. A promising antifibrotic drug, pyridoxamine attenuates thioacetamide-induced liver fibrosis by combating oxidative stress, advanced glycation end products, and balancing matrix metalloproteinases. Eur J Pharmacol 2022;923.
- 65. Shahdeo D, Kesarwani V, Suhag D, Ahmed J, Alshehri SM, Gandhi S. Corrigendum to "Self-assembled chitosan polymer intercalating peptide functionalized gold nanoparticles as nanoprobe for efficient imaging of urokinase plasminogen activator receptor in cancer diagnostics" [Carbohydrate Polymers, 266, (2021) 118138] (Carbohydrate Polymers (2021) 266, (S0144861721005257), (10.1016/j.carbpol.2021.118138)). Carbohydr Polym 2022;284.
- 66. Imperfect maintenance modeling for sequential corrective and preventive maintenance. AIP Conference Proceedings; 2022.
- 67. Kumar N, Srivastava R, Mongre RK, Mishra CB, Kumar A, Khatoon R, et al. Identifying the Novel Inhibitors Against the Mycolic Acid Biosynthesis Pathway Target "mtFabH" of Mycobacterium tuberculosis. Front Microbiol 2022;13.
- 68. Yadav K, Yadav D, Bhandari DD, Yadav R. Identification of 1,3-(Dimethyl / Propyl)-8-Susbtituted (Cinnamic acid/Furan) Xanthine Derivatives with Anti-bronchospasmodic Activity Using in silico and in vivo Techniques. ChemistrySelect 2022;7(17).
- 69. Kumari R, Rathi R, Pathak SR, Dalal V. Structural-based virtual screening and identification of novel potent antimicrobial compounds against YsxC of Staphylococcus aureus. J Mol Struct 2022;1255.
- 70. Aggarwal M, Bajaj SB, Jaglan V. AN IMPROVED VOGEL'S APPROXIMATION METHOD (IVAM) FOR FRAGMENT ALLOCATIONN AND REPLICATION IN DISTRIBUTED DATABASE SYSTEMS. Indian J Comp Sci Eng 2022:13(3):885-896.
- 71. Lahariya V, Gupta SK. Enhanced photoluminescence from CdS nanocrystals encapsulated by PVP and SHMP. Optoelectron Lett 2022;18(5):257-262.
- 72. Sharma S, Banerjee A, Moreno A, Redhu AK, Falson P, Prasad R. Spontaneous Suppressors against Debilitating Transmembrane Mutants of CaMdr1 Disclose Novel Interdomain Communication via Signature Motifs of the Major Facilitator Superfamily. J Fungi 2022;8(5).
- 73. Dhiman A, Handa M, Ruwali M, Singh DP, Kesharwani P, Shukla R. Recent trends of natural based therapeutics for mitochondria targeting in Alzheimer's disease. Mitochondrion 2022;64:112-124.
- 74. Kumar J, Sharma A, Won SO, Chae KH, Shekhar C, Kumar S, et al. Electronic Structure, Photoluminescence and Thermoluminescence Studies of Cu-Doped Mg2B2O5 Nanophosphors. J Electron Mater 2022;51(5):1922-1932.
- 75. Soharu A, Bp N, Sil A. Fly ash bricks development using concrete waste debris and self-healing bacteria. J Mater Cycles Waste Manage 2022;24(3):1037-1046.
- 76. Gupta J, Rathour R, Dupont C, Mishra A, Shekhar Thakur I. Biogeochemical profiling and taxonomic characterization of municipal landfill site by metagenomic sequencing. Bioresour Technol 2022;351.



- 77. Behl T, Gupta A, Sehgal A, Singh S, Sharma N, Garg M, et al. Exploring the multifaceted role of TGF-β signaling in diabetic complications. Environ Sci Pollut Res 2022;29(24):35643-35656.
- 78. Sharma J, Kumar V, Prasad R, Gaur NA. Engineering of Saccharomyces cerevisiae as a consolidated bioprocessing host to produce cellulosic ethanol: Recent advancements and current challenges. Biotechnol Adv 2022;56.
- 79. Gupta A, Kumar M, Ghosh P, Swati, Thakur IS. Risk assessment of a municipal extended aeration activated sludge treatment plant using physico-chemical and in vitro bioassay analyses. Environ Technol Innov 2022;26.
- 80. Li R, Singh R, Kashav T, Yang C, Sharma RD, Lynn AM, et al. Computational Insights of Unfolding of N-Terminal Domain of TDP-43 Reveal the Conformational Heterogeneity in the Unfolding Pathway. Front Mol Neurosci 2022;15.
- 81. Sonbawne SM, Fadnavis S, Vijayakumar K, Devara PCS, Chavan P. Phase-Resolved Lockdown Features of Pollution Parameters Over an Urban and Adjoining Rural Region During COVID-19. Front Environ Sci 2022;10.
- 82. Dhillon A, Thakkar A, Sardana S. Development and Validation of HPLC and Spectrophotometric Method for the Quantification of Quercetin in Calendula Flower Extract. Int J Pharm Qual Assur 2022:13(2):187-192.
- 83. Thakur P, Chahar D, Thakur A. Visible light assisted photocatalytic degradation of methylene blue dye using Ni doped Co-Zn nanoferrites. Adv Nano Res 2022;12(4):415-426.
- 84. Agarwal A, Rao GK, Majumder S, Shandilya M, Rawat V, Purwar R, et al. Natural protein-based electrospun nanofibers for advanced healthcare applications: progress and challenges. 3 Biotech 2022;12(4).
- 85. Vauche R, Mefteh RAB, Haddad F, Rahajandraibe W, Wan F, Lallechere S, et al. Bandpass NGD Time- Domain Experimental Test of Double-Li Microstrip Circuit. IEEE Des Test 2022;39(2):121-128.
- 86. Dudeja C, Kumar P. An improved weighted sum-fuzzy Dijkstra's algorithm for shortest path problem (iWSFDA). Soft Comput 2022;26(7):3217-3226.
- 87. Kotnala RK, Das R, Shah J, Sharma S, Sharma C, Sharma PB. Red mud industrial waste translated into green electricity production by innovating an ingenious process based on Hydroelectric Cell. J Environ Chem Eng 2022;10(2).
- 88. Garg A, Nayyar A, Singh AK. Improved seam carving for structure preservation using efficient energy function. Multimedia Tools Appl 2022;81(9):12883-12924.
- 89. Gupta S, Sihag P. Prediction of the compressive strength of concrete using various predictive modeling techniques. Neural Comput Appl 2022;34(8):6535-6545.
- 90. Kaur K, Kumar A, Singh H. Influence of physical layer impairments on connection provisioning of WDM Networks. Photonic Netw Commun 2022;43(2):135-146.
- 91. Bhatia S, Al-Harrasi A, Kumar A, Behl T, Sehgal A, Singh S, et al. Anti-migraine activity of freeze-dried latex obtained from Calotropis gigantea Linn. Environ Sci Pollut Res 2022;29(18):27460-27478.
- 92. Thaha R, Jogi SP, Rajan S, Mahajan V, Mehndiratta A, Singh A. A semi-automatic framework based upon quantitative analysis of MR-images for classification of femur cartilage into asymptomatic, early OA, and advanced-OA groups. J Orthop Res 2022;40(4):779-790.
- 93. Gandhi DH, Vaidya FU, Pathak C, Patel TN, Bhatt BS. Mechanistic insight of cell anti-proliferative activity of fluoroquinolone drug-based Cu(II) complexes. Mol Diversity 2022;26(2):869-878.
- 94. Conservation laws, symmetry reduction and exact solution of time fractional Kudryashov-Sinelshchilov equation. AIP Conference Proceedings; 2022.
- 95. The solution of system of time fractional ordinary differential equations by semi-analytical technique. AIP Conference Proceedings; 2022.
- 96. Gupta T, Kataria R, Sardana S. A Comprehensive Review on Current Perspectives of Flavonoids as Antimicrobial Agent. Curr Top Med Chem 2022;22(6):425-434.
- 97. Yadav S, Sharma S, Singh B, Sharma PB. Concurrence of Process Optimized Parameters for Friction Stir Processed AA-6082-T6. Int J Eng Trends Technol 2022;70(3):254-265.



- 98. Kumar A, Gupta R, Sharma J. Effect of dust grains on the parametric coupling of a lower hybrid wave driven ion cyclotron wave in a tokamak plasma. AIP Adv 2022;12(3).
- 99. Gupta S, Singh GP, Kumawat S. Modeling and targeting an essential metabolic pathway of Plasmodium falciparum in apicoplast using Petri nets. Appl Math 2022;37(1):91-110.
- 100. Kumar J, Kumar S, Shekhar C, Brajpuriya R, Vij A. Effect of Eu doping on the thermoluminescence of UV and gamma irradiated Mg2B2O5 nanophosphors. Lumin 2022;37(3):472-478.
- 101. Samantaray N, Parida B, Soga T, Sharma A, Kapoor A, Najar A, et al. Recent Development and Directions in Printed Perovskite Solar Cells. Phys Status Solidi A Appl Mater Sci 2022;219(6).
- 102. Kumar K, Chen S-. Multiple attribute group decision making based on advanced linguistic intuitionistic fuzzy weighted averaging aggregation operator of linguistic intuitionistic fuzzy numbers. Inf Sci 2022;587:813-824.
- 103. Parkash O, kumar A, Sikarwar BS. CFD modeling of slurry flow erosion wear rate through mitre pipe bend. Proc Inst Mech Eng Part C J Mech Eng Sci 2022;236(5):2256-2267.
- 104. Kumar N, Koul R, Singh RC. Comparative analysis of ternary blends of renewable Diesel, diesel and ethanol with diesel. Sustainable Energy Technol Assess 2022;50.
- 105. Jogi SP, Thaha R, Rajan S, Mahajan V, Venugopal VK, Mehndiratta A, et al. Device for Assessing Knee Joint Dynamics During Magnetic Resonance Imaging. J Magn Reson Imaging 2022;55(3):895-907.
- 106. Hameed S, Hans S, Nandan S, Fatima Z. Mechanistic insights into the antimycobacterial action of unani formulation, Qurs Sartan Kafoori. J Tradit Complement Med 2022;12(2):162-171.
- 107. Designing of Parabolic Trough Collector using Plane Mirrors. Journal of Physics: Conference Series; 2022.
- 108. Bumbrah GS, Jani M, Bhagat DS, Dalal K, Kaushal A, Sadhana K, et al. Zinc oxide nanoparticles for detection of latent fingermarks on nonporous surfaces. Mater Chem Phys 2022;278.
- 109. Chahar D, Thakur P, Kumar R, Thakur A. Influence of Mg doping on the structural, electrical and dielectric properties of Co-Zn nanoferrites. J Magn Magn Mater 2022;544.
- 110. Rana K, Pani T, Jha SK, Mehta D, Yadav P, Jain D, et al. Hydrogel-mediated topical delivery of steroids can effectively alleviate psoriasis via attenuating the autoimmune responses. Nanoscale 2022;14(10):3834-3848.
- 111. Madhavan AA, Kushwaha D, Nath D, Ghosh Moulick R, Bhattacharya J. Natural Occurrence of Carbon Dots during in Vitro Nonenzymatic Glycosylation of Hemoglobin AO. ACS Omega 2022;7(5):3881-3888.
- 112. Kumari S, Kumar M, Esquivel BD, Wasi M, Pandey AK, Khandelwal NK, et al. Unmasking of CgYor1-Dependent Azole Resistance Mediated by Target of Rapamycin (TOR) and Calcineurin Signaling in Candida glabrata. mBio 2022;13(1).
- 113. Raul B, Bhattacharjee O, Ghosh A, Upadhyay P, Tembhare K, Singh A, et al. Microscopic and Transcriptomic Analyses of Dalbergoid Legume Peanut Reveal a Divergent Evolution Leading to Nod-Factor-Dependent Epidermal Crack-Entry and Terminal Bacteroid Differentiation. Mol Plant-Microbe Interact 2022;35(2):131-145.
- 114. Pandya SJ, Kapitanov IV, Banjare MK, Behera K, Borovkov V, Ghosh KK, et al. Mixed Oxime-Functionalized IL/16-s-16 Gemini Surfactants System: Physicochemical Study and Structural Transitions in the Presence of Promethazine as a Potential Chiral Pollutant. Chemosensors 2022;10(2).
- 115. Juneja S, Kaur K, Singh H. An intelligent coverage optimization and link-stability routing for energy efficient wireless sensor network. Wireless Networks 2022;28(2):705-719.
- 116. Kaswan P, Oswal P, Kumar A, Mohan Srivastava C, Vaya D, Rawat V, et al. SNS donors as mimic to enzymes, chemosensors, and imaging agents. Inorg Chem Commun 2022;136.
- 117. Singh PK, Bhattacharjya R, Saxena A, Thakur IS, Tiwari A. Envisaging the role of pharmaceutical contaminant 17-β estradiol on growth and lipid productivity of marine diatom Chaetoceros gracilis. Bioresour Technol 2022;346.
- 118. Ravinder D, Hashim M, Upadhyay A, Ismail MM, Kumar S, Kumar R, et al. Investigation of structural and magnetic properties of La doped Co–Mn ferrite nanoparticles in the presence of α-Fe2O3 phase. Solid State Commun 2022;342.



- 119. Bharti MK, Chalia S, Thakur P, Sridhara SN, Sharma PB, Thakur A. Microstructural Analysis and Effect of Spin-Canting on Magnetic Attributes of Single-Phase Polycrystalline Cobalt Ferrite Nanoparticles. J Supercond Novel Magn 2022;35(2):571-579.
- 120. Subasree S, Sakthivel NK, Tripathi K, Agarwal D, Tyagi AK. Combining the advantages of radiomic features based feature extraction and hyper parameters tuned RERNN using LOA for breast cancer classification. Biomed Signal Process Control 2022;72.
- 121. Raina P, Singh SK, Goswami AK, Kashyap MK, Khullar M, Sharma SK, et al. MN/CA9 gene expression as a potential tumor marker for renal cell carcinoma. Mol Cell Biochem 2022;477(2):333-343.
- 122. Kalsoom A, Shankar AN, Kakaravada I, Jindal P, Lakshmi VVK, Rajeshkumar S. Investigation of dynamic properties of a three-dimensional printed thermoplastic composite beam containing controllable core under non-uniform magnetic fields. Proc Inst Mech Eng Part L J Mat Des Appl 2022;236(2):404-412.
- 123. Majumder D, Debnath M, Sharma KN, Shekhawat SS, Prasad GBKS, Maiti D, et al. Olive Oil Consumption can Prevent Non-communicable Diseases and COVID-19: A Review. Curr Pharm Biotechnol 2022;23(2):261-275.
- 124. Bhatia S, Al-Harrasi A, Behl T, Anwer MK, Ahmed MM, Mittal V, et al. Unravelling the photoprotective effects of freshwater alga Nostoc commune Vaucher ex Bornet et Flahault against ultraviolet radiations. Environ Sci Pollut Res 2022;29(10):14380-14392.
- 125. Gupta A, Sinha KM, Abdin MZ, Puri N, Selvapandiyan A. NDK/NME proteins: a host–pathogen interface perspective towards therapeutics. Curr Genet 2022;68(1):15-25.
- 126. Hans S, Fatima Z, Hameed S. Mass spectrometry-based untargeted lipidomics reveals new compositional insights into membrane dynamics of Candida albicans under magnesium deprivation. J Appl Microbiol 2022;132(2):978-993.
- 127. Singh R, Kumar N, Mehra R, Walia A, Kumar H, Sharma K, et al. Colorimetric assay for visual determination of imidacloprid in water and fruit samples using asparagine modified gold nanoparticles. J Iran Chem Soc 2022;19(2):599-607.
- 128. Wan F, Gu T, Lallechere S, Thakur P, Thakur A, Rahajandraibe W, et al. Design and Test of Innovative Three-Couplers-Based Bandpass Negative Group Delay Active Circuit. IEEE Des Test 2022;39(1):57-66.
- 129. Pasha A, Kumbhakar DV, Sana SS, Ravinder D, Lakshmi BV, Kalangi SK, et al. Role of Biosynthesized Ag-NPs Using Aspergillus niger (MK503444.1) in Antimicrobial, Anti-Cancer and Anti-Angiogenic Activities. Front Pharmacol 2022;12.
- 130. Ghosh S, Yadav P. Study of gravitational settling of single semi-torus shaped particle using immersed boundary method. Appl Math Comput 2022;413.
- 131. Rawat V, Vigalok A, Sinha AK, Sachdeva G, Srivastava CM, Rao GK, et al. Synthesis of a Zirconium Complex of an N, O-Type p-Tert-Butylcalix[4] arene and Its Application in Some Multicomponent Reactions. ACS Omega 2022.
- 132. Chauhan A, Kumari S, Verma R, Dutta V, Ghotekar S, Kaur M, et al. Fabrication of copper oxide nanoparticles via microwave and green approaches and their antimicrobial potential. Chem Pap 2022.
- 133. Thakur P, Gahlawat N, Punia P, Kharbanda S, Ravelo B, Thakur A. Cobalt Nanoferrites: a Review on Synthesis, Characterization, and Applications. J Supercond Novel Magn 2022.
- 134. Dhankhar C, Kumar K. Multi-attribute decision-making based on the advanced possibility degree measure of intuitionistic fuzzy numbers. Granul Comp 2022.
- 135. The Impact of Block Chain in Accounting and Auditing Domain A Critical Approach for Enhanced Efficiency and Transparency. 2022 2nd International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2022; 2022.
- 136. Detailed Investigation of Influence of Machine learning (ML) and Big Data on Digital Transformation in Marketing. 2022 2nd International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2022; 2022.
- 137. A Critical Significance of Using Machine Learning in Strengthening Financial Risk Management in Banking Firms. 2022 2nd International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2022; 2022.



- 138. Kaushal J, Singh S, Nautiyal D, Rao GK, Singh AK, Kumar A. Click chemistry in the synthesis of catalytically relevant organoselenium compounds: development and applications of catalysts for organic synthesis. New J Chem 2022.
- 139. Richa, Kaur K, Singh P. A Novel MRI and CT Image Fusion Based on Discrete Wavelet Transform and Principal Component Averaging for Enhanced Clinical Diagnosis. Int J Online Biomed Eng 2022;18(10):64-82.
- 140. Sagar KG, Anjani PK, Raman MS, Devi NSMPL, Mehta K, Gonzales JLA, et al. Improving Sustainability of EDM Sector by Implementing Unconventional Competitive Manufacturing Approach. Adv Mater Sci Eng 2022;2022.
- 141. Adeniyi JK, Adeniyi TT, Ogundokun RO, Misra S, Agrawal A, Ahuja R. PriHealth: A Fingerprint-Based Mobile Primary Healthcare Management System. Commun Comput Info Sci 2022;1579 CCIS:432-445.
- 142. Saharan S, Yadav B, Yadav AK. Application of Hertzberg stain in the identification and differentiation of polyvinyl acetate-based forged fingerprints. Curr Sci 2022;123(2):160-168.
- 143. Kumari S, Thakur P, Singh S, Thakur A. A detailed structural analysis, morphological and optical study of Mg-Zn nano ferrite. Mater Today Proc 2022.
- 144. Yadav I, Kumar R. Surgical repair of indirect inguinal hernia in bonnet macaque (Macaca radiata). Open Vet J 2022;12(4):434-438.
- 145. Dhanda N, Thakur P, Thakur A. Green synthesis of cobalt ferrite: A study of structural and optical properties. Mater Today Proc 2022.
- 146. Ogundokun RO, Misra S, Awotunde JB, Agrawal A, Ahuja R. PCA-Based Feature Extraction for Classification of Heart Disease. Lect Notes Electr Eng 2022;881:173-183.
- 147. Olatunde OS, Mofiyinfoluwa O, Akande ON, Misra S, Ahuja R, Agrawal A, et al. Comparison of Selected Algorithms on Breast Cancer Classification. Lect Notes Electr Eng 2022;881:161-171.
- 148. Akande ON, Ayoola J, Misra S, Ahuja R, Agrawal A, Oluranti J. Application of Support Vector Machine and Convolutional Neural Network for Sentence-Level Sentiment Analysis of Companies Products Review. Lect Notes Electr Eng 2022;881:133-145.
- 149. Yadav P, Saini R, Bhaduri A. Facile synthesis of MgO nanoparticles for effective degradation of organic dyes. Environ Sci Pollut Res 2022.
- 150. Antiurolithiatic Activity On The Fruits Of Coccinia Indica Ethylene Glycol Induced Lithiatic In Rats. ECS Transactions: 2022.
- 151. Singh D, Sinha S, Thada V. A novel attribute based access control model with application in laaS cloud. J Integr Sci Technol 2022;10(2):79-86.
- 152. Sharma D, Gupta S. Factors for contact lens denial: contact lens dispensers' perspective about wearers. World Rev Sci Technol Sustainable Dev 2022:18(3-4):346-363.
- 153. Anshu, Sharma S, Sharma SC. In the existence of a transverse dc electric field, the kinetic theory of current-driven electrostatic ion cyclotron waves excitation in a magnetized dusty plasma. Contrib Plasma Phys 2022.
- 154. Sharma A, Mani N, Bhardwaj R, Kumar K. Thermal Vibration of Rectangle Plate with Two-Dimensional Circular Thickness Effect. Math Probl Eng 2022;2022.
- 155. Singh S, Hans S, Ahmad A, Fatima Z, Hameed S. Unique roles of aminophospholipid translocase Drs2p in governing efflux pump activity, ergosterol level, virulence traits, and host–pathogen interaction in Candida albicans. Int Microbiol 2022.
- 156. Srivastava A, Srivastava AK, Singh A, Singh P, Verma S, Vats M, et al. Biopolymers as renewable polymeric materials for sustainable development an overview. Polim 2022;67(5):185-196.
- 157. Performance Analysis of Degree of Redundancy for Replication in Distributed Database System. Proceedings of 2022 1st International Conference on Informatics, ICI 2022; 2022.



- 158. Pata J, Moreno A, Magnard S, Banerjee A, Prasad R, Falson P. Production and Purification of a GFP-Tagged ABC Transporter CaCdr1p. Methods Mol Biol 2022;2507:175-185.
- 159. Taneja S, Thakur P, Thakur A. Effect of bismuth doped Ni-Zn nanoferrite on structural and magnetic properties. Mater Today Proc 2022.
- 160. Negi DP, Azeez EPA. Impacts of Development Induced Displacement on the Tribal Communities of India: An Integrative Review. Asia-Pacific Soc Sci Rev 2022;22(2):50-62.
- 161. Exploring Pathways of Digital Financial Inclusion to Improve Women's Economic Participation. 8th International Conference on Advanced Computing and Communication Systems, ICACCS 2022; 2022.
- 162. Tiwari JK, Jeevalatha A, Tuteja N, Khurana SMP. Genome editing (CRISPR-Cas)-mediated virus resistance in potato (Solanum tuberosum L.). Mol Biol Rep 2022.
- 163. Das S, Sil A, Naveen BP. Effects of Soil–Structure Interaction on Seismic Fragility of Railway Concrete Bridge, in India. Iran J Sci Tech Trans Civ Eng 2022.
- 164. Taneja S, Thakur P, Kumar R, Hemalatha S, Slimani Y, Ravelo B, et al. Nanostructured Rare Earth Nd3+doped Nickel–Zinc–Bismuth Spinel Ferrites: Structural, Electrical and Dielectric Studies. Ceram Int 2022.
- 165. Kumar A, Dhawan R, Gupta R, Sharma J. Generation of ion cyclotron instability by parametric coupling of gyrating ion beam with lower hybrid wave in a complex plasma. Mater Today Proc 2022;62:3263-3268.
- 166. Asture A, Rawat V, Srivastava C, Vaya D. Investigation of properties and applications of ZnO polymer nanocomposites. Polym Bull 2022.
- 167. Udhaya Kumar S, Balasundaram A, Anu Preethi V, Chatterjee S, Kameshwari Gollakota GV, Kashyap MK, et al. Integrative ontology and pathway-based approach identifies distinct molecular signatures in transcriptomes of esophageal squamous cell carcinoma. Adv Protein Chem Struct Biol 2022;131:177-206.
- 168. Chahar D, Thakur P, Thakur A. A comparative study of structural, electrical and dielectric properties of Ni-Zn and Co-Zn nanoferrites. Mater Today Proc 2022.
- 169. Dhankhar C, Yadav AK, Kumar K. A Ranking Method for q-Rung Orthopair Fuzzy Set Based on Possibility Degree Measure. Lect Notes Networks Syst 2022;425:15-24.
- 170. Banerjee A, Vishwakarma P, Meena NK, Lynn AM, Prasad R. Bioinformatic Identification of ABC Transporters in Candida auris. Methods Mol Biol 2022;2517:229-240.
- 171. Wasi M, Nair R, Khandelwal NK, Prasad R. Measuring Gene Expression via mRNA Abundance in Candida auris. Methods Mol Biol 2022;2517:155-164.
- 172. Makkar P, Sikka S, Malhotra A. Optimization of Software Quality Attributes using Evolutionary Algorithm. Int J Electr Electron Res 2022;10(2):131-137.
- 173. Chatterji N, Kiran R. The influence of human, organizational and relational capital of universities on their performance: a developing economy perspective. J Intellect Cap 2022.
- 174. Thakur A, Punia P, Dhar R, Aggarwal RK, Thakur P. Separation of cadmium and chromium heavy metals from industrial wastewater by using Ni-Zn nanoferrites. Adv Nano Res 2022;12(5):457-465.
- 175. Punia P, Thakur P, Dhar R, Thakur A. Microstructural, electrical and magnetic properties of Ni-Zn nanoferrites sintered at high temperature. Mater Today Proc 2022.
- 176. Singh A, Singh AK, Garg A. ICT in Education: A Comparative Analysis of Pre-Covid and Post-Covid Era. Smart Innov Syst Technol 2022;303 SIST:705-719.
- 177. A Facile Green Synthesis and Optical Characterization of Nano Zinc Aluminate Phosphor. ECS Transactions; 2022.
- 178. Machine Learning Techniques for True and Fake Job Posting. ECS Transactions; 2022.
- 179. Efficient Image Deblurring Application Using Combination of Blind Deconvolution Method and Blur Parameters Estimation Method. ECS Transactions; 2022.
- 180. Biomechanical Analysis of Multi-Material Hip Implant Assembly. ECS Transactions; 2022.



- 181. An Application Module of IOT for Environment Protection. ECS Transactions; 2022.
- 182. Effectiveness of Electro Cardio Gram Interpretation Intervention (ECGII) on Knowledge and Skill Among Nursing Students. ECS Transactions; 2022.
- 183. Evaluation of Thermal Behavior and Properties of Carbon Dots Prepared by Green Synthesis. ECS Transactions; 2022.
- 184. Meena MS, Pare S, Singh P, Rana A, Prasad M. A Robust Illumination and Intensity invariant Face Recognition System. Int J Circuit Syst Signal Process 2022;16:974-984.
- 185. Kumar A, Kumar A, Goyat V, Sharma J, Nain J, Jain V. Interfering of liquid fuel droplets—A burning approach. Mater Today Proc 2022;56:278-281.
- 186. Das S. Analysing impact of strategies adopted by decision makers on performance parameters of bi-criteria transportation problem. Int J Adv Oper Manag 2022;14(1):1-15.
- 187. Singh M, Dhiman S, Debnath N, Das S. Magnetic nanoparticles and their application in sustainable environment. Sustainable Nanotechnology for Environmental Remediation; 2022. p. 457-483.
- 188. Arora A, Oswal P, Sharma D, Chamoli A, Kumar S, Rao GK, et al. Coinage metal chalcogenides via single-source precursors. Nanomaterials via Single-Source Precursors: Synthesis, Processing and Applications; 2022. p. 531-562.
- 189. A Game Theory based Attacker Defender Model for IDS in Cloud Security. Proceedings of the 2022 9th International Conference on Computing for Sustainable Global Development, INDIACom 2022; 2022.
- 190. Vertical Fragmentation using K-Medoid in Distributed Database. Proceedings of the 2022 9th International Conference on Computing for Sustainable Global Development, INDIACom 2022; 2022.
- 191. Das S. Thermal analysis of a house made of composite walls comprising of a solar PV panel and an epoxy/Al polymer located in Gulmarg. Int J Ambient Energy 2022.
- 192. Meena PL, Kumar Y, Bhardwaj P, Genwa M, Arya DK, Verma A, et al. WET CHEMICAL GROWTH OF ONE DIMENSIONAL ZnO FILM. Rasayan J Chem 2022;15(1):423-431.
- 193. Khan AA, Pant NC, Joshi R, Devara PCS. Chemical and isotopic variability of Bhagirathi river water (Upper Ganga), Uttarakhand, India. Ecological Significance of River Ecosystems: Challenges and Management Strategies; 2022. p. 133-146.
- 194. Rawat P, Nain P, Sharma S, Sharma PK, Malik V, Majumder S, et al. An overview of synthetic methods and applications of photoluminescence properties of carbon quantum dots. Lumin 2022.
- 195. Khurana R, Gupta L, Kumar N. Development and standardization of a COVID-19 Vaccination Anxiety scale for Adult Urban Indian Population (CVAS-A). Hum Vaccines Immunother 2022;18(5).
- 196. Yadav S, Sharma S, Singh B, Sharma PB. Effect of groove shape on mechanical properties of surface composites of Al 6082 prepared using friction stir processing. Mater Today Proc 2022.
- 197. Analysis of Anomaly detection of Malware using KNN. Proceedings of 2nd International Conference on Innovative Practices in Technology and Management, ICIPTM 2022; 2022.
- 198. An Inspection of MANET'S Scenario using AODV, DSDV and DSR Routing Protocols. Proceedings of 2nd International Conference on Innovative Practices in Technology and Management, ICIPTM 2022; 2022.
- 199. Performance Analysis of AODV and SAODV Routing Protocol using SVM against Black Hole Attack. Proceedings of 2nd International Conference on Innovative Practices in Technology and Management, ICIPTM 2022; 2022.
- 200. Bodkhe MG, Sharma S, Mourad A-I, Sharma PB. Finite element analysis of copper tube to study the behavior of equivalent strength during the severe plastic deformation process. Mater Today Proc 2022;56:3129-3136.
- 201. Kumar J, Singh P, Yadav AK. Asymmetric double-image encryption using twin decomposition in fractional Hartley domain. Opt Appl 2022;52(1):21-35.
- 202. Kumar A, Das S, Baluni S, Yadav VK, Lu J. Global quasi-synchronisation of fuzzy cellular neural networks with time varying delay and interaction terms. Int J Syst Sci 2022.



- 203. Arora Y, Kohli R. A STUDY FOR MAKING UNIVERSITIES INTELLIGENT USING DATA ANALYTICS AND ARTIFICIAL INTELLIGENCE. Research Notes on Computing and Communication Sciences: Intelligent System Algorithms and Applications in Science and Technology; 2022. p. 147-155.
- 204. Sharma SK, Mudgal SK, Rawat R, Sehrawat S, Mehra T, Choudhary S. Patient perception towards males in nursing profession in India: A single center, cross-sectional survey. Int J Afr Nurs Sci 2022;16.
- 205. A Framework for Structural Damage detection system in automobiles for flexible Insurance claim using IOT and Machine Learning. 2022 International Mobile and Embedded Technology Conference, MECON 2022; 2022.
- 206. Ogundokun RO, Misra S, Segun-Owolabi T, Gulanikar AA, Agrawal A, Damasevicius R. A Web Application Vulnerability Testing System. Lect Notes Electr Eng 2022;855:741-751.
- 207. Garg A, Singh AK. Analysis of seam carving technique: limitations, improvements and possible solutions. Visual Comput 2022.
- 208. Ethical Hacking: Importance, Controversies and Scope in the Future. 2022 International Conference on Computer Communication and Informatics, ICCCI 2022; 2022.
- 209. Narain RS, Mishra SK. Cost mitigation impact and measurement material in outsourcing HR functions in Indian banks. Mater Today Proc 2022;63:35-39.
- 210. Pulsed Laser Synthesis of Bi-Metallic Nanoparticles for Biomedical Applications: A Review. 2022 Advances in Science and Engineering Technology International Conferences, ASET 2022; 2022.
- 211. Yadav S, Sharma S, Singh B, Sharma PB. Effect of quenching on post-processed aluminum 6082 alloy using friction stir processing. Mater Today Proc 2022;63:387-394.
- 212. Verma DK, Tyagi RK, Chakraverti AK. Secure Data Sharing of Electronic Health Record (EHR) on the Cloud Using Blockchain in Covid-19 Scenario. Lect Notes Networks Syst 2022;376:165-175.
- 213. Kumar N, Kumar H, Kumar K. A Study for Plausible Third Wave of COVID-19 in India through Fuzzy Time Series Modelling Based on Particle Swarm Optimization and Fuzzy c-Means. Math Probl Eng 2022;2022.
- 214. Design and Implementation of Array Multiplier using Compressor for Low Power. 2022 International Conference for Advancement in Technology, ICONAT 2022; 2022.
- 215. Design of an Ultra-Low Power CMOS ADC using Threshold Inverter Quantization for Communication System. 2022 International Conference for Advancement in Technology, ICONAT 2022; 2022.
- 216. Sharma A, Bhardwaj R, Lather N, Ghosh S, Mani N, Kumar K. Time Period of Thermal-Induced Vibration of Skew Plate with Two-Dimensional Circular Thickness. Math Probl Eng 2022;2022.
- 217. Koul R, Kumar N, Singh RC. Comparative analysis of renewable diesel and biodiesel produced from Jatropha oil. Environ Prog Sustainable Energy 2022.
- 218. Jain S, Rathee S, Kumar A, Sambasivam A, Boadh R, Choudhary T, et al. Prediction of temperature for various pressure levels using ANN and multiple linear regression techniques: A case study. Mater Today Proc 2022;56:194-199.
- 219. Kumar D, Kashyap MK, Yu Z, Spaanderman I, Villa R, Kipps TJ, et al. Modulation of RNA splicing associated with Wnt signaling pathway using FD-895 and pladienolide B. Aging 2022;14(5):2081-2100.
- 220. Ghosh D, Kumari S, Majumder S. Role of Graphene Oxide Based Nanocomposites in Arsenic Purification from Ground Water. Eng Mater 2022:369-388.
- 221. Abel KD, Misra S, Agrawal A, Maskeliunas R, Damasevicius R. Data Security Using Cryptography and Steganography Technique on the Cloud. Lect Notes Electr Eng 2022;834:475-481.
- 222. Oluwaseun Ogundokun R, Misra S, Dazam N, Agrawal A. Classification of Lung Cancer Datasets Using Computational Intelligence Techniques. Lect Notes Electr Eng 2022;834:459-465.
- 223. Christiana Abikoye O, Oluwaseun Ogundokun R, Misra S, Agrawal A. Analytical Study on LSB-Based Image Steganography Approach. Lect Notes Electr Eng 2022;834:451-457.
- 224. Richa, Kaur K, singh P. An Effective Algorithm of Remote Sensing Image Fusion Based on Discrete Wavelet Transform. Lect Notes Networks Syst 2022;339:313-330.



- 225. Dhankar U, Dahiya S, Chawla R, Kumar P, Gupta N. Numerical Simulation of Temperature Dependency on Performance of Solar PVC. Silicon 2022.
- 226. Abel KD, Misra S, Jonathan O, Agrawal A, Maskeliunas R, Damasevicius R. Data Security in Cloud Computing Using a Hybrid Algorithm Approach. Lect Notes Electr Eng 2022;834:467-474.
- 227. Guerin M, Rahajandraibe W, Fontgalland G, Silva HS, Chan G, Wan F, et al. Theory and Original Design of Resistive-Inductive Network High-Pass Negative Group Delay Integrated Circuit in 130-nm CMOS Technology. IEEE Access 2022:10:27147-27161.
- 228. Jia H, Wan F, Frnda J, Guerin M, Rahajandraibe W, Thakur P, et al. Novel Tee-Shaped Topology Theory of Low- and High-Pass NGD Double-Type Function. IEEE Access 2022;10:28445-28460.
- 229. Parkash O, Kumar A, Sikarwar BS. Drag model validation of slurry pipeline using CFD. J Eng Res (Kuwait) 2022:10(1B):193-204.
- 230. Ngoho S, Camara MD, Dong Y, Douyère A, Murad NM, Thakur P, et al. S-matrix-based bandpass negative group delay innovative model of inverted parallel arm distributed topology. J Electromagn Waves Appl 2022;36(12):1745-1759.
- 231. Gadhwal R, Kaushik P, Devi A. A review on 1D photonic crystal based reflective optical limiters. Crit Rev Solid Statae Mater Sci 2022.
- 232. Bilal S, Ramaswamy R. A higher-dimensional generalization of the Lozi map: bifurcations and dynamics. J Differ Equ Appl 2022.
- 233. Kumar P, Sharma A. MRL-JAYA: A FUSION OF MRLDE AND JAYA ALGORITHM. Palest J Math 2022;11(Special issue1):54-74.
- 234. P P, Malik P, Supreet, Kumar A, Castagna R, Singh G. Recent advances and future perspectives on nanoparticles-controlled alignment of liquid crystals for displays and other photonic devices. Crit Rev Solid Statae Mater Sci 2022.
- 235. Bhatt A, Bumbrah GS, Ruwali M, Hameed S, Fatima Z. Diagnostic efficiency of RT-LAMP integrated CRISPR-Cas technique for COVID-19: A systematic review and meta-analysis. Pathog Global Health 2022.
- 236. Zhu H-, Naveen BP, Wang J, Cheng G, Gao Y. Research Status and Prospect of Anti-slide Piles for Slope Stabilization. Lect Notes Civ Eng 2022;230 LNCE:223-236.
- 237. Sahu M, Sharma AK, Sharma G, Kumar A, Nandave M, Babu V. Facile synthesis of bromelain copper nanoparticles to improve the primordial therapeutic potential of copper against acute myocardial infarction in diabetic rats1. Can J Physiol Pharmacol 2022;100(3):210-219.
- 238. Negi DP, Abdul Azeez EP. 'No Means No': People's Protest Against Hydroelectric Development in Kinnaur, Himachal Pradesh, India. Contemp 2022.
- 239. Joshi T, Parkash O, Krishan G. Numerical Investigation of Slurry Pressure Drop at Different Pipe Roughness in a Straight Pipe Using CFD. Arab J Sci Eng 2022.
- 240. Kumar M, Ramamoorty M. PERFORMANCE ANALYSIS OF HYBRID ENERGY STORAGE SYSTEM-BASED DC MICROGRID FOR A DEVELOPED CONTROL TECHNIQUE. Int J Power Energy Syst 2022;42(10).
- 241. Sinha S, Agrawal SS. Deep Neural Networks for Spoken Language Identification in Short Utterances. Commun Comput Info Sci 2022;1546 CCIS:264-274.
- 242. Yadav S, Sharma S, Singh B, Sharma PB. Comparison of Mechanical properties in Single-Pass, Two-Pass and Three-Pass approach Friction Stir Processing of Aluminium Alloy. Int J Eng Trends Technol 2022;70(1):291-298.
- 243. Chao Q, Maneengam A, Margabandu S, Jindal P, Patil PY, Zheng G-, et al. Mechanical and damping property evaluation of jute fiber reinforced composite periodic core sandwich panels. J Nat Fibres 2022.
- 244. Sharma K, Vaya D, Prasad G, Surolia PK. Photocatalytic process for oily wastewater treatment: a review. Int J Environ Sci Technol 2022.
- 245. Manrai R, Gupta KP. Investor's perceptions on artificial intelligence (AI) technology adoption in investment services in India. J Finan Serv Mark 2022.



- 246. Mehbodniya A, Khan IR, Chakraborty S, Karthik M, Mehta K, Ali L, et al. Data Mining in Employee Healthcare Detection Using Intelligence Techniques for Industry Development. J Healthc Eng 2022;2022.
- 247. Bhagat DS, Bumbrah GS, Gurnule WB. Rare Earth Element Based Functionalized Electrocatalysts in Overall Water Splitting Reactions. Energy Environ Sustain 2022:205-218.
- 248. Shala A, Singh S, Hameed S, Paul Khurana SM. Essential Oils as Alternative Promising Anti-Candidal Agents: Progress and Prospects. Curr Pharm Des 2022;28(1):58-70.
- 249. Kumar P, Vashishath M, Gupta N, Gupta R. High-k Dielectric Double Gate Junctionless (DG-JL) MOSFET for Ultra Low Power Applications- Analytical Model. Silicon 2022.
- 250. Sharma D, Paul RA, Rudramurthy SM, Kashyap N, Bhattacharya S, Soman R, et al. Impact of FKS1 Genotype on Echinocandin In Vitro Susceptibility in Candida auris and In Vivo Response in a Murine Model of Infection. Antimicrob Agents Chemother 2022;66(1).
- 251. Kumar A, Jain G, Suraj, Jindal P, Mishra V, Akashe S. Design of a CPW-Fed Microstrip Elliptical Patch UWB Range Antenna for 5G Communication Application. Lect Notes Networks Syst 2022;334:801-811.
- 252. Mishra M, Kar D, Santos CAG, Silva RMD, Das PP. Assessment of impacts to the sequence of the tropical cyclone Nisarga and monsoon events in shoreline changes and vegetation damage in the coastal zone of Maharashtra, India. Mar Pollut Bull 2022;174.
- 253. Bala N, Gupta R, Kumar A. Multimodal biometric system based on fusion techniques: a review. Inf Secur J 2022;31(3):289-337.
- 254. Soharu A, Naveen BP, Sil A. An Approach Towards Zero-Waste Building Construction. Lect Notes Civ Eng 2022;196:239-257.
- 255. Singh R, Kumari M, Bindal S, Gupta I. Quantification of Drought Condition Using Drought Indices: A Review. Lect Notes Civ Eng 2022;178:231-241.
- 256. Dahiya P, Garg S. Dimensionality Reduction Using Variational Autoencoders. Lect Notes Networks Syst 2022;238:255-262.
- 257. Joy DT, Thada V, Srivastava U. Sentiment Analysis on Global Warming Tweets Using Naïve Bayes and RNN. Lect Notes Networks Syst 2022;238:225-234.
- 258. Garg S, Dahiya P. Computational Intelligence for Image Caption Generation. Lect Notes Networks Syst 2022:238:263-270.
- 259. Sinha S. Speech Signal Processing for Identification of Under-Resourced Languages. Lect Notes Networks Syst 2022;238:291-298.
- 260. Rotimi OJ, Misra S, Agrawal A, Azubuike E, Maskeliunas R, Damasevicius R. Curbing Criminal Acts on Mobile Phone Network. Lecture Notes Data Eng Commun Tech 2022;73:99-111.
- 261. Ezra PJ, Misra S, Agrawal A, Oluranti J, Maskeliunas R, Damasevicius R. Secured Communication Using Virtual Private Network (VPN). Lecture Notes Data Eng Commun Tech 2022;73:309-319.
- 262. Patel HS, Shaikh SJ, Ray D, Aswal VK, Vaidya F, Pathak C, et al. Formulation, Solubilization, and In Vitro Characterization of Quercetin-Incorporated Mixed Micelles of PEO-PPO-PEO Block Copolymers. Appl Biochem Biotechnol 2022;194(1):445-463.
- 263. Kirtonia A, Ashrafizadeh M, Zarrabi A, Hushmandi K, Zabolian A, Bejandi AK, et al. Long noncoding RNAs: A novel insight in the leukemogenesis and drug resistance in acute myeloid leukemia. J Cell Physiol 2022;237(1):450-465.
- 264. Behl T, Chadha S, Sehgal A, Singh S, Sharma N, Kaur R, et al. Exploring the role of cathepsin in rheumatoid arthritis. Saudi J Biol Sci 2022;29(1):402-410.
- 265. Shrivastava S, Singh R, Jain C, Kaushal S. A Research on Fake News Detection Using Machine Learning Algorithm. Smart Innov Syst Technol 2022;235:273-287.
- 266. Bhatia V, Jaglan V, Kumawat S, Siwach V, Sehrawat H. Intelligent Transportation System Applications: A Traffic Management Perspective. Lect Notes Networks Syst 2022;213:419-433.



- 267. Vaya D, Kaushik B, Surolia PK. Recent advances in graphitic carbon nitride semiconductor: Structure, synthesis and applications. Mater Sci Semicond Process 2022;137.
- 268. Afah D, Gautam A, Misra S, Agrawal A, Damaševičius R, Maskeliūnas R. Smartphones Verification and Identification by the Use of Fingerprint. Lect Notes Networks Syst 2022;292:365-373.
- 269. Hiremath IS, Goel A, Warrier S, Kumar AP, Sethi G, Garg M. The multidimensional role of the Wnt/β-catenin signaling pathway in human malignancies. J Cell Physiol 2022;237(1):199-238.
- 270. Benet N, Rajalakshmi K, Kumar V. Impact of more than three years of Carnatic music training on the working memory: an ERP study. Hear Balance Commun 2022;20(1):8-14.
- 271. Arora R. Thermodynamic investigations with maximum power point tracking (MPPT) of hybrid thermoelectric generator-heat pump model. Int J Ambient Energy 2022;43(1):2466-2474.
- 272. Arora R, Arora R, Sridhara SN. Performance assessment of 186 kWp grid interactive solar photovoltaic plant in Northern India. Int J Ambient Energy 2022;43(1):128-141.
- 273. Sharma S, Sathasivam T, Rawat P, Pushpamalar J. Lycopene-loaded nanostructured lipid carrier from carboxymethyl oil palm empty fruit bunch cellulose for topical administration. Carbohydr Polym Technol Appl 2021;2.
- 274. Banjare RK, Banjare MK, Behera K, Tandon M, Pandey S, Ghosh KK. Deep eutectic solvents as modulator on the micellization behaviour of cationic surfactants and potential application in human serum albumin aggregation. J Mol Liq 2021;344.
- 275. Tanneeru K, Bhatraju NK, Bhosale RS, Kalangi SK. Assessing Differential Binding of Aggregation-Induced Emission-Based Luminogens to Host Interacting Surface Proteins of SARS-CoV-2 and Influenza Virus-An in silico Approach. Front Microbiol 2021;12.
- 276. Jafri S. CAN SUSTAINABLE HRM PRACTICES ATTRACT TALENT-CROSS LAGGED STUDY AMONGST PROSPECTIVE EMPLOYEES IN INDIA. J Sustainability Sci Manage 2021;16(8):44-61.
- 277. Mukherjee A, Kumari M, Ghosh Moulick R. Post-synthesis treatment of graphene oxide/silica particles nanocomposite with piranha acid for functionalization. Adv Nat Sci Nanosci Nanotechnol 2021;12(4).
- 278. Yadav S, Sharma A. Importance and challenges of hydrothermal technique for synthesis of transition metal oxides and composites as supercapacitor electrode materials. J Energy Storage 2021;44.
- 279. Sinha AK, Srivastava CM, Rao GK, Karnatak M, Verma VP, Rawat V. Synthesis of 4-aryldihydrocoumarins via a sequential michael addition-lactonization route. Curr Organocatalysis 2021;8(3):316-320.
- 280. Varma RR, Vaidya FU, Pathak C, Dhaduk MP, Dabhi RA, Bhatt BS, et al. Synthesis, spectroscopic characterization, computational and biological evaluation of organometallic Re(I) complexes with 5-(2-butyl-5-chloro-1H-imidazol-4-yl)-1,3-diaryl-4,5-dihydro-1H-pyrazole. Inorg Chem Commun 2021;134.
- 281. Mudgal S, Manikandan K, Mukherjee A, Krishnan A, Sinha KM. Cyclic di-AMP: Small molecule with big roles in bacteria. Microb Pathog 2021;161.
- 282. Parkash O, kumar A, Sikarwar BS. Computational Erosion Wear Model Validation of Particulate Flow Through Mitre Pipe Bend. Arab J Sci Eng 2021;46(12):12373-12390.
- 283. Mishra AK, Kumar R, Yadav VK. Stability Analysis and Controlling Chaos of Fractional-Order Three-Species Food Chain Model with Fear. Internat J Appl Comput Math 2021;7(6).
- 284. Kumar V. Retraction Note: Seven spices of India—from kitchen to clinic (J. Ethn. Food, (2020), 7, (23), 10.1186/s42779-020-00058-0). J Ethnic Food 2021;8(1).
- 285. Kumar S, Behl T, Sehgal A, Singh S, Sharma N, Bhatia S, et al. Exploring the Role of Orexinergic Neurons in Parkinson's Disease. Neurotoxic Res 2021;39(6):2141-2153.
- 286. Yadav R, Chundawat TS, Rawat P, Rao GK, Vaya D. Photocatalytic degradation of malachite green dye by ZnO and $ZnO-\beta$ -cyclodextrin nanocomposite. Bull Mater Sci 2021;44(4).
- 287. Chaudhary G, Singh D, Sharma M. Effect of chemical elicitors on the differential expression pattern of PR genes in susceptible and resistant cultivars of tomato against bacterial wilt disease caused by Ralstonia solanacearum. Physiol Mol Plant Pathol 2021;116.



- 288. Gandhi H, Tomar A, Singh D. Conservation laws and exact series solution of fractional-order Hirota–Satsuma-coupled Korteveg–de Vries system by symmetry analysis. Math Methods Appl Sci 2021;44(18):14356-14370.
- 289. Jogi SP, Thaha R, Rajan S, Mahajan V, Venugopal VK, Singh A, et al. Model for in-vivo estimation of stiffness of tibiofemoral joint using MR imaging and FEM analysis. J Transl Med 2021;19(1).
- 290. Kaur J, Kaur J, Kapoor S, Singh H. Design & development of customizable web API for interoperability of antimicrobial resistance data. Sci Rep 2021;11(1).
- 291. Singh P, Gupta N, Rathi R. Blood pattern analysis—a review and new findings. Egypt J Forensic Sci 2021;11(1).
- 292. Kumar N, Khurana SMP, Pandey VN. Application of clove and dill oils as an alternative of salphos for chickpea food seed storage. Sci Rep 2021;11(1).
- 293. Bhattacharya A, Champramary S, Tripathi T, Thakur D, Ioshikhes I, Singh SK, et al. Identification of the conserved long non-coding RNAs in myogenesis. BMC Genomics 2021;22(1).
- 294. Tripathi A, Kashyap A, Tripathi G, Yadav J, Bibban R, Aggarwal N, et al. Tumor reversion: a dream or a reality. Biomarker Res 2021;9(1).
- 295. Mahamood M, Javed M, Alhewairini SS, Zahir F, Sah AK, Ahmad MI. Labeo rohita, a bioindicator for water quality and associated biomarkers of heavy metal toxicity. npj Clean Water 2021;4(1).
- 296. Ramjiram Thakur S, Naveen BP, Tegar JP. Improvement in CBR value of soil reinforced with nonwoven geotextile sheets. Intl J Gerengin 2021;12(1).
- 297. Bhalla N, Taneja S, Thakur P, Sharma PK, Mariotti D, Maddi C, et al. Doping Independent Work Function and Stable Band Gap of Spinel Ferrites with Tunable Plasmonic and Magnetic Properties. Nano Lett 2021;21(22):9780-9788.
- 298. Sarkar A, Das A, Ash S, Shankar P N R, Bhattacharyya K, Ganguli AK. Structural and magnetic properties of R0.5Sr0.5Fe0.5Mn0.5O3 (R = Gd, Nd or Pr) perovskites. J Alloys Compd 2021;882.
- 299. Gupta S, Bharti MK. Nanowaste disposal and recycling. Nanomaterials Recycling; 2021. p. 109-123.
- 300. Sachdeva K, Kumar A, Mohanty S. Virology of SARS-CoV-2 and management of nCOVID-19 utilizing immunomodulation properties of human mesenchymal stem cells-a literature review. Stem Cell Incestig 2021;8.
- 301. Tripathi A, Goswami T, Trivedi SK, Sharma RD. A multi class random forest (MCRF) model for classification of small plant peptides. Int J Inf Manag Data Insights 2021;1(2).
- 302. Paulsamy P, Ashraf R, Alshahrani SH, Periannan K, Qureshi AA, Venkatesan K, et al. Social support, self-care behaviour and self-efficacy in patients with type 2 diabetes during the COVID-19 pandemic: A cross-sectional study. Healthcare (Basel) 2021;9(11).
- 303. Bilal Jilani S, Prasad R, Yazdani SS. Overexpression of oxidoreductase YghA confers tolerance of furfural in ethanologenic Escherichia coli strain SSK42. Appl Environ Microbiol 2021;87(23).
- 304. Kumar A, Gupta R, Sharma J. Generation of whistler wave by parametric decay of lower hybrid wave in a complex plasma. AIP Adv 2021;11(11).
- 305. Seema, Kumar G, Sharma A, Kashyap S, Beddiaf Z, Shekhar C. Thermodynamic modeling of Al–Si nanoalloy phase diagram. J Nanopart Res 2021;23(11).
- 306. Yadav VK, Katiyar T, Ruwali M, Yadav S, Singh S, Hadi R, et al. Polymorphism in cytochrome P4502A6 reduces the risk to head and neck cancer and modifies the treatment outcome. Environ Mol Mutagen 2021;62(9):502-511.
- 307. Mongre RK, Mishra CB, Shukla AK, Prakash A, Jung S, Ashraf-Uz-zaman M, et al. Emerging importance of tyrosine kinase inhibitors against cancer: Quo vadis to cure? Int J Mol Sci 2021;22(21).
- 308. Chawla U, Kashyap MK, Husain A. Aging and diabetes drive the COVID-19 forwards; unveiling nature and existing therapies for the treatment. Mol Cell Biochem 2021;476(11):3911-3922.
- 309. Karnatak M, Hassam M, Vanangamudi M, Sharma S, Kumar Yadav D, Singh C, et al. Novel naphthyl based 1,2,4-trioxanes: Synthesis and in vivo efficacy in the Plasmodium yoelii nigeriensis in Swiss mice. Bioorg Med Chem Lett 2021;51.



- 310. Sharma N, Zahoor I, Sachdeva M, Subramaniyan V, Fuloria S, Fuloria NK, et al. Deciphering the role of nanoparticles for management of bacterial meningitis: an update on recent studies. Environ Sci Pollut Res 2021;28(43):60459-60476.
- 311. Gupta S, Fatima Z, Kumawat S. Study of the bioenergetics to identify the novel pathways as a drug target against Mycobacterium tuberculosis using Petri net. BioSystems 2021;209.
- 312. Tyagi B, Takkar S, Meena R, Thakur IS. Production of polyhydroxybutyrate (PHB) by Parapedobacter sp. ISTM3 isolated from Mawsmai cave utilizing molasses as carbon source. Environ Technol Innov 2021;24.
- 313. Sharma A, Kansara S, Mahajan M, Yadav B, Garg M, Pandey AK. Long non-coding RNAs orchestrate various molecular and cellular processes by modulating epithelial-mesenchymal transition in head and neck squamous cell carcinoma. Biochim Biophys Acta Mol Basis Dis 2021;1867(11).
- 314. Prasad DP, Neenu Y, Kalpana G. Climatic influence on aerosol distribution in a suburban National Capital Region, India. Res J Chem Environ 2021;24(11):110-115.
- 315. Sharma AK, Bhatia S, Al-Harrasi A, Nandave M, Hagar H. Crosstalk between GSK-3β-actuated molecular cascades and myocardial physiology. Heart Fail Rev 2021;26(6):1495-1504.
- 316. Vats M, Chhabra A, Yudha SS, Choudhary G, Taliyan M. Nanopolysaccharides and pharmaceutical applications. Innovation in Nano-polysaccharides for Eco-sustainability: From Science to Industrial Applications; 2021. p. 201-216.
- 317. Manrai R, Goel U, Yadav PD. Factors affecting adoption of digital payments by semi-rural Indian women: extension of UTAUT-2 with self-determination theory and perceived credibility. Aslib J Inf Manage 2021;73(6):814-838.
- 318. Sanjeev GM, Tiwari S. Reflections on the theme issue outcomes. Worldwide Hospitality and Tourism Themes 2021;13(5):683-687.
- 319. Pandey A, Kulshrestha R. Service blueprint 4.0: a service design for hotels beyond COVID-19. Worldwide Hospitality and Tourism Themes 2021;13(5):610-621.
- 320. Mehta K, Sharma S. Analyzing employee perspectives on the impact of COVID-19 on sustainable practices: a study of five-star hotels in India. Worldwide Hospitality and Tourism Themes 2021;13(5):636-645.
- 321. Joshi VA, Gupta I. Assessing the impact of the COVID-19 pandemic on hospitality and tourism education in India and preparing for the new normal. Worldwide Hospitality and Tourism Themes 2021;13(5):622-635.
- 322. Chhabra A, Munjal M, Mishra PC, Singh K, Das D, Kuhar N, et al. Medical tourism in the COVID-19 era: opportunities, challenges and the way ahead. Worldwide Hospitality and Tourism Themes 2021;13(5):660-665.
- 323. Chakravarty U, Chand G, Singh UN. Millennial travel vlogs: emergence of a new form of virtual tourism in the post-pandemic era? Worldwide Hospitality and Tourism Themes 2021;13(5):666-676.
- 324. Sanjeev GM, Tiwari S. Responding to the coronavirus pandemic: emerging issues and challenges for Indian hospitality and tourism businesses. Worldwide Hospitality and Tourism Themes 2021;13(5):563-568.
- 325. Tiwari S, Sanjeev GM. Conclusion: emerging issues for Indian hospitality and tourism businesses: How are managers responding to the COVID-19 pandemic? Worldwide Hospitality and Tourism Themes 2021;13(5):677-682.
- 326. Sharma A, Manocha D, Arora A, Kumar A, Srivastava CM, Rawat V, et al. Applications of green nanomaterials in electronic and electrical industries. Green Nanomaterials for Industrial Applications; 2021. p. 397-421.
- 327. Muzafar S, Sharma RD, Chauhan N, Prasad R. Intron distribution and emerging role of alternative splicing in fungi. FEMS Microbiol Lett 2021:368(19).
- 328. Yadav M, Sharma J. Electrostatic ion-cyclotron wave excitation by a gyrating ion beam in a magnetized plasma containing heavy positive ions. Indian J Pure Appl Phys 2021;59(10):671-677.
- 329. Rana T, Behl T, Sehgal A, Mehta V, Singh S, Bhatia S, et al. Exploring the Role of Autophagy Dysfunction in Neurodegenerative Disorders. Mol Neurobiol 2021;58(10):4886-4905.



- 330. Kumari A, Kumari K, Ahmed F, Ahmad MM, Sharma J, Vij A, et al. Role of Bi-excess on structural, electrical, optical, and magnetic properties BiFeO3 nanoparticles. J Mater Sci Mater Electron 2021;32(19):23968-23982.
- 331. Kaur R, Sood A, Kanotra M, Arora S, Subramaniyan V, Bhatia S, et al. Pertinence of nutriments for a stalwart body. Environ Sci Pollut Res 2021;28(39):54531-54550.
- Bansal H, Kumar V, Mehta R. Diagnostic comparison of biochemical profile in patients with Covid-19, dengue and Acute Febrile illness: Implications for patient management. Clin Epidemiol Global Health 2021;12.
- 333. Verma M, Tyagi I, Kumar V, Goel S, Vaya D, Kim H. Fabrication of GO–MnO2 nanocomposite using hydrothermal process for cationic and anionic dyes adsorption: Kinetics, isotherm, and reusability. J Environ Chem Eng 2021;9(5).
- 334. Singh A, Handa M, Ruwali M, Flora SJS, Shukla R, Kesharwani P. Nanocarrier mediated autophagy: An emerging trend for cancer therapy. Process Biochem 2021;109:198-206.
- 335. Behl T, Kumar K, Singh S, Sehgal A, Sachdeva M, Bhatia S, et al. Unveiling the role of polyphenols in diabetic retinopathy. J Funct Foods 2021;85.
- 336. Gupta J, Rathour R, Maheshwari N, Shekhar Thakur I. Integrated analysis of Whole genome sequencing and life cycle assessment for polyhydroxyalkanoates production by Cupriavidus sp. ISTL7. Bioresour Technol 2021;337.
- 337. Chigurupati S, Abdul Rahman Alharbi N, Sharma AK, Alhowail A, Vardharajula VR, Vijayabalan S, et al. Pharmacological and pharmacognostical valuation of Canna indica leaves extract by quantifying safety profile and neuroprotective potential. Saudi J Biol Sci 2021;28(10):5579-5584.
- 338. Bharti MK, Chalia S, Thakur P, Thakur A. Effect of Lanthanum Doping on Microstructural, Dielectric and Magnetic Properties of Mn0.4Zn0.6Cd0.2LaxFe1.8-xO4 (0.0 \leq x \leq 0.4). J Supercond Novel Magn 2021;34(10):2591-2600.
- 339. Bharti MK, Chalia S, Thakur P, Sridhara SN, Thakur A, Sharma PB. Nanoferrites heterogeneous catalysts for biodiesel production from soybean and canola oil: a review. Environ Chem Lett 2021;19(5):3727-3746.
- 340. Negi DP, Abdul Azeez EP, Kaini A, Jabir P. 'Forced to Choose': Bacchara Women's Experiences in Sex Work. Sex Cult 2021;25(5):1620-1633.
- 341. Zaidi B, Shekhar C, Hadjoudja B, Gagui S, Saeed MA. Efficiency Enhancement of Transition Metal Dichalcogenide Based Solar Cells. Trans Electr Electron Mater 2021;22(5):687-690.
- 342. Effectiveness of existing green rating systems towards zero waste construction. AIP Conference Proceedings; 2021.
- 343. Kumar S, Pal S, Thakur J, Rani P, Rana K, Kar A, et al. Nonimmunogenic Hydrogel-Mediated Delivery of Antibiotics Outperforms Clinically Used Formulations in Mitigating Wound Infections. ACS Appl Mater Interfaces 2021;13(37):44041-44053.
- 344. Gupta R, Thakur J, Pal S, Mishra D, Rani P, Kumar S, et al. Cholic-Acid-Derived Amphiphiles Can Prevent and Degrade Fungal Biofilms. ACS Appl Bio Mater 2021;4(9):7332-7341.
- 345. Berro P, Norouziyanlakvan S, Rao GK, Gabidullin B, Richeson D. Electrocatalytic reduction of CO2to CO and HCO2–with Zn(ii) complexes displaying cooperative ligand reduction. Chem Commun 2021;57(73):9292-9295.
- 346. Role of N-ZnO/GO and Fe2O3-ZnO in photocatalytic activity. AIP Conference Proceedings; 2021.
- 347. Synthesis of ZnO-graphene nanocomposite by chemical co-precipitation method and its structural characterizations. AIP Conference Proceedings; 2021.
- 348. Photocatalytic degradation of malachite green dye by using β -cyclodextrin based nanocomposites. AIP Conference Proceedings; 2021.
- Patel R, Singh B, Sharma A, Saraswat J, Dohare N, Parray MUD, et al. Interaction and esterase activity of albumin serums with orphenadrine: A spectroscopic and computational approach. J Mol Struct 2021;1239.



- 350. Behl T, Gupta A, Sehgal A, Sharma S, Singh S, Sharma N, et al. A spotlight on underlying the mechanism of AMPK in diabetes complications. Inflamm Res 2021;70(9):939-957.
- 351. Kumar V, Srivastava S, Thakur IS. Enhanced recovery of polyhydroxyalkanoates from secondary wastewater sludge of sewage treatment plant: Analysis and process parameters optimization. Bioresour Technol Rep 2021;15.
- 352. Sonbawne SM, Devara PCS, Bhoyar PD. Multisite characterization of concurrent black carbon and biomass burning around COVID-19 lockdown period. Urban Clim 2021;39.
- 353. Dutta J, Devi N. Preparation, optimization, and characterization of chitosan-sepiolite nanocomposite films for wound healing. Int J Biol Macromol 2021;186:244-254.
- 354. Grover M, Behl T, Virmani T, Bhatia S, Al-Harrasi A, Aleya L. Chrysopogon zizanioides—a review on its pharmacognosy, chemical composition and pharmacological activities. Environ Sci Pollut Res 2021;28(33):44667-44692.
- 355. Pal S, Soni V, Kumar S, Jha SK, Medatwal N, Rana K, et al. A hydrogel-based implantable multidrug antitubercular formulation outperforms oral delivery. Nanoscale 2021;13(31):13225-13230.
- 356. Chaudhry M, Sah SP, Sharma IP, Mondal S. Does offering only the spherical contact lens trial to the low astigmats mislead the practitioners? Int J Ophthalmol 2021;14(8):1281-1284.
- 357. Shahdeo D, Kesarwani V, Suhag D, Ahmed J, Alshehri SM, Gandhi S. Self-assembled chitosan polymer intercalating peptide functionalized gold nanoparticles as nanoprobe for efficient imaging of urokinase plasminogen activator receptor in cancer diagnostics. Carbohydr Polym 2021;266.
- 358. VG3 Cipher for Secure Image Transmission. Journal of Physics: Conference Series; 2021.
- 359. A Multi-Objective Approach for Software Quality Improvement. Journal of Physics: Conference Series; 2021.
- 360. Synthesis and characterization of one dimensional ZnO nanorods. AIP Conference Proceedings; 2021.
- Thakran M, Kumar S, Phogat R, Ray SK, Brajpuriya R, Singh Rana A, et al. Synthesis of nanocrystalline reduced graphene oxide quantum dots. Int J Nanosci 2021;20(4).
- 362. Goswami S, Srivastava A. Creative behavior as predictor of positive psychological capital among trans gender people. Indian J Ecol 2021;48:153-155.
- Naveen BP, Sitharam TG, Sivapullaiah PV, Kumar S. Geophysical techniques for characterisation of municipal solid waste landfills. Proc Inst Civ Eng Waste Resour Manag 2021;174(3):78-96.
- 364. Joshi S, Yadav D, Yadav R. Fluoroquinolones: a review on anti-tubercular activity. Monatsh Chem 2021;152(8):881-894.
- 365. Hameed S, Hans S, Singh S, Dhiman R, Monasky R, Pandey RP, et al. Revisiting the vital drivers and mechanisms of β -glucan masking in human fungal pathogen, candida albicans. Pathogens 2021;10(8).
- 366. Kumar J, Kumar R, Singh M, Kumar S, Kumar R, Won SO, et al. Structural, diffuse reflectance and luminescence study of t-Mg2B2O5 nanostructures. Appl Phys A 2021;127(8).
- 367. Punia P, Dhar R, Ravelo B, Trukhanov AV, Panina LV, Thakur P, et al. Microstructural, Optical and Magnetic Study of Ni–Zn Nanoferrites. J Supercond Novel Magn 2021;34(8):2131-2140.
- 368. Morya R, Kumar M, Kumar V, Thakur IS. Biovalorization of lignin derived compounds with molasses as cosubstrate for polyhydroxyalkanoate production. Environ Technol Innov 2021;23.
- 369. Sikka P, Behl T, Sharma S, Sehgal A, Bhatia S, Al-Harrasi A, et al. Exploring the therapeutic potential of omega-3 fatty acids in depression. Environ Sci Pollut Res 2021;28(32):43021-43034.
- 370. Kumar K, Chen S-. Multiattribute decision making based on the improved intuitionistic fuzzy Einstein weighted averaging operator of intuitionistic fuzzy values. Inf Sci 2021;568:369-383.
- 371. Behl T, Sehgal A, Grover M, Singh S, Sharma N, Bhatia S, et al. Uncurtaining the pivotal role of ABC transporters in diabetes mellitus. Environ Sci Pollut Res 2021;28(31):41533-41551.
- 372. Verma M, Mitan M, Kim H, Vaya D. Efficient photocatalytic degradation of Malachite green dye using facilely synthesized cobalt oxide nanomaterials using citric acid and oleic acid. J Phys Chem Solids 2021;155.



- 373. Vishwakarma P, Meena NK, Prasad R, Lynn AM, Banerjee A. ABC-finder: A containerized web server for the identification and topology prediction of ABC proteins. Biochim Biophys Acta Biomembr 2021;1863(8).
- 374. Dhawan D, Sharma S. Abdominal obesity: A stepping stone to non-communicable diseases in south asia. Def Life Sci J 2021;6(3):269-272.
- 375. Khater S, Kumar P, Dasgupta N, Das G, Ray S, Prakash A. Combining SARS-CoV-2 Proofreading Exonuclease and RNA-Dependent RNA Polymerase Inhibitors as a Strategy to Combat COVID-19: A High-Throughput in silico Screening. Front Microbiol 2021;12.
- 376. Thakur P, Taneja S, Chahar D, Ravelo B, Thakur A. Recent advances on synthesis, characterization and high frequency applications of Ni-Zn ferrite nanoparticles. J Magn Magn Mater 2021;530.
- 377. Thapa R, Sai K, Saha D, Kushwaha D, Aswal VK, Ghosh Moulick R, et al. Synthesis and characterization of a nanoemulsion system for solubility enhancement of poorly water soluble non-steroidal anti-inflammatory drugs. J Mol Liq 2021;334.
- 378. Wavelet Based Image Fusion Techniques: A Comparison Based Review. Proceedings of the 6th International Conference on Communication and Electronics Systems, ICCES 2021; 2021.
- 379. Arora A, Oswal P, Kumar Rao G, Kumar S, Kumar A. Organoselenium ligands for heterogeneous and nanocatalytic systems: development and applications. Dalton Trans 2021;50(25):8628-8656.
- 380. Kakkar A, Kumari L, Kumar V. ASSESSMENT OF COGNITIVE LOAD USING PUPILLOMETRIC MEASURES IN NEURO-TYPICAL POPULATION: APPLICATION IN FORENSIC SCIENCES. J Forensic Med Toxicol 2021;38(2):23-27.
- 381. Saharan S, Yadav AK, Yadav B. FORGE FINGERPRINTS: FABRICATION, DEVELOPMENT, AND DETECTION TECHNIQUES. Int J Med Toxicol Legal Med 2021;24(3-4):189-194.
- 382. Chigurupati S, Vijayabalan S, Palanimuthu VR, Das S, Bhatia S. Bacterial endophyte inhabiting durio zibethinus and its radical scavenging and antidiabetic potential. Indian J Pharm Educ Res 2021;55(3):857-862.
- 383. Benet N, Krishna R, Kumar V. Enhancement of Processing Capabilities of Hippocampus Lobe: A P300 Based Event Related Potential Study. J Audiol Otol 2021;25(3):119-123.
- 384. Kala D, Sharma TK, Gupta S, Verma V, Thakur A, Kaushal A, et al. Graphene oxide nanoparticles modified paper electrode as a biosensing platform for detection of the htra gene of o. Tsutsugamushi. Sensors 2021;21(13).
- 385. Behl T, Kaur I, Sehgal A, Singh S, Bhatia S, Al-Harrasi A, et al. The footprint of kynurenine pathway in neurodegeneration: Janus-faced role in parkinson's disorder and therapeutic implications. Int J Mol Sci 2021;22(13).
- 386. Deeba F, Kumar A, Mukherjee M, Sharma AK, Sharma M. Targeting the endocannabinoid system in diabesity: Fact or fiction? Drug Discov Today 2021;26(7):1750-1758.
- 387. Morya R, Kumar M, Thakur IS. Bioconversion of Guaiacylglycerol- β -guaiacyl ether into vanillin by Burkholderia sp. ISTR5: A genomic and proteomic approach. Int Biodeterior Biodegrad 2021;161.
- 388. Singh V, Kumar K, Purohit D, Verma R, Pandey P, Bhatia S, et al. Exploration of therapeutic applicability and different signaling mechanism of various phytopharmacological agents for treatment of breast cancer. Biomed Pharmacother 2021;139.
- Arora A, Singh S, Oswal P, Nautiyal D, Rao GK, Kumar S, et al. Preformed molecular complexes of metals with organoselenium ligands: Syntheses and applications in catalysis. Coord Chem Rev 2021;438.
- 390. Arora A, Oswal P, Singh S, Nautiyal D, Rao GK, Kumar S, et al. Organoselenium ligand-stabilized copper nanoparticles: Development of a magnetically separable catalytic system for efficient, room temperature and aqueous phase reduction of nitroarenes. Inorg Chim Acta 2021;522.
- 391. Ghosh S. Immersed boundary simulations of fluid shear-induced deformation of a cantilever beam. Math Comput Simul 2021;185:384-402.
- 392. Kumar N, Sonthalia A, Tomar M, Koul R. An experimental investigation on spray, performance and emission of hydrotreated waste cooking oil blends in an agricultural engine. Int J Engine Res 2021;22(7):2305-2317.



- 393. Agnihotri AS, Fatima Z, Hameed S, Nidhin M. Highly Surface Active Anisotropic Silver Nanoparticles as Antimicrobial Agent Against Human Pathogens, Mycobacterium smegmatis and Candida albicans. ChemistrySelect 2021;6(22):5466-5473.
- 394. Structural characterization of starch capped ZnO nanoparticles. Journal of Physics: Conference Series; 2021.
- 395. Bhowmik D, Sharma RD, Prakash A, Kumar D. "Identification of Nafamostat and VR23 as COVID-19 drug candidates by targeting 3CLpro and Plpro.". J Mol Struct 2021;1233.
- 396. Yadav B, Pal S, Rubstov Y, Goel A, Garg M, Pavlyukov M, et al. LncRNAs associated with glioblastoma: From transcriptional noise to novel regulators with a promising role in therapeutics. Mol Ther Nucl Acids 2021:24:728-742.
- 397. Behl T, Kaur I, Sehgal A, Singh S, Bhatia S, Al-Harrasi A, et al. Bioinformatics accelerates the major tetrad: A real boost for the pharmaceutical industry. Int J Mol Sci 2021;22(12).
- 398. Singh A, Abdul Azeez EP. Caste in contemporary Bollywood movies: An analysis of the portrayal of characters. Asian J Soc Sci 2021;49(2):93-100.
- 399. Yadav A, Chandra R, Sharma L. Nutritional and Organoleptic Properties of Oat Milk Dessert Enriched with Paneer and Standardized Milk. Asian J Dairy Food Res 2021;40(2):167-171.
- 400. Saxena P. Effectiveness of social media promotion for online shopping sites: A study on buying behavior of consumer. J Content, Community Commun 2021;13(7):351-359.
- 401. Arya KK, Verma DM. CONTEMPORARY BOLLYWOOD'S TRYST WITH BOURGEOIS ROMANCES OF HINDI CINEMA. J Content, Community Commun 2021;13(7):308-315.
- 402. Verma RM. Digital Media and the Academic World. J Content, Community Commun 2021;13(7):1-1.
- 403. Kumar N, Shala AY, Paul Khurana SM. Antiviral and immuno-boosting potential of ashwagandha (Withania somnifera I.). Med Plants 2021;13(2):237-244.
- 404. Paul Khurana SM, Kumar N. Agricultural sustainability can be ensured by adopting dynamic plant pathology, pedagogy. Indian Phytopathol 2021;74(2):509-518.
- 405. Morya R, Kumar M, Shekhar Thakur I. Bioconversion of syringyl lignin into malic acid by Burkholderia sp. ISTR5. Bioresour Technol 2021;330.
- 406. Malhotra B, Kulkarni GT, Dhiman N, Joshi DD, Chander S, Kharkwal A, et al. Recent advances on Berberis aristata emphasizing berberine alkaloid including phytochemistry, pharmacology and drug delivery system. J Herbal Med 2021;27.
- 407. Dagar G, Bagchi G. Novel use of coactivators to enhance sensitivity of SEAP-based reporter assay system for visual monitoring and quantitation of androgens and antiandrogens in water. Sci Total Environ 2021;771.
- 408. Jain S, Roy SB, Panda J, Rath SS. Modeling of land-use and land-cover change impact on summertime near-surface temperature variability over the Delhi–Mumbai Industrial Corridor. Model Earth Syst Environ 2021;7(2):1309-1319.
- 409. Kumar P, Vashishath M, Gupta N. Retraction: Analytical Modeling and Performance Analysis of Surface Potential for Junctionless MOSFET. J Phys Conf Ser 2021;1916(1).
- 410. Singhal C, Bruno JG, Kaushal A, Sharma TK. Recent Advances and a Roadmap to Aptamer-Based Sensors for Bloodstream Infections. ACS Appl Bio Mater 2021;4(5):3962-3984.
- 411. Arora A, Behl T, Sehgal A, Singh S, Sharma N, Bhatia S, et al. Unravelling the involvement of gut microbiota in type 2 diabetes mellitus. Life Sci 2021;273.
- 412. Dhingra D, Behera K, Bhawna, Pandey S. Formation of water-in-oil microemulsions within a hydrophobic deep eutectic solvent. Phys Chem Chem Phys 2021;23(17):10629-10635.
- 413. An extensive review of shortest path problem solving algorithms. Proceedings 5th International Conference on Intelligent Computing and Control Systems, ICICCS 2021; 2021.
- 414. Low Power Sub-threshold Domino and Gate. Journal of Physics: Conference Series; 2021.



- 415. Parkash O, Kumar A, Sikarwar BS. CFD Modeling Of Slurry Pipeline At Different Prandtl Numbers. J Therm Eng 2021;7(4):952-969.
- 416. Taneja G, Sharma AK, Khanna D, Rajput SK. Effect of pantoprazole on I-R-induced myocardial injury in diabetic rats targeting inflammatory cytokine release and oxidative stress. Iran J Basic Med Sci 2021;24(5):615-622.
- 417. Bouarroudj T, Aoudjit L, Djahida L, Zaidi B, Ouraghi M, Zioui D, et al. Photodegradation of tartrazine dye favored by natural sunlight on pure and (Ce, Ag) co-doped ZnO catalysts. Water Sci Technol 2021;83(9):2118-2134.
- 418. Akash, Parida AP, Srivastava A, Mathur S, Sharma AK, Kumar R. Identification, evolutionary profiling, and expression analysis of F-box superfamily genes under phosphate deficiency in tomato. Plant Physiol Biochem 2021;162:349-362.
- 419. Kumari S, Kumar M, Gaur NA, Prasad R. Multiple roles of ABC transporters in yeast. Fungal Genet Biol 2021;150.
- 420. Chalia S, Bharti MK, Thakur P, Thakur A, Sridhara SN. An overview of ceramic materials and their composites in porous media burner applications. Ceram Int 2021;47(8):10426-10441.
- 421. Kumar M, Ramamoorty M. A control technique based on TRFT for interconnection of smart DC and AC microgrids. Int J Power Energy Syst 2021;41(3):162-174.
- 422. Kumar A, Sarkar P, Chattopadhyay A. Metabolic Depletion of Sphingolipids Reduces Cell Surface Population of the Human Serotonin1AReceptor due to Impaired Trafficking. ACS Chem Neurosci 2021;12(7):1189-1196.
- 423. Kumar D, Vaya D, Chundawat TS. Total Synthesis of 6-Hydroxymetatacarboline- d Discovered from Mycena metata via the Pictet-Spengler Reaction Followed by the Horner-Wadsworth-Emmons Reaction. ACS Omega 2021;6(13):8933-8941.
- 424. Taneja S, Chahar D, Thakur P, Thakur A. Influence of bismuth doping on structural, electrical and dielectric properties of Ni–Zn nanoferrites. J Alloys Compd 2021;859.
- 425. Chundawat TS, Verma N, Vaya D. Development in synthesis and coating applications of polyurethane. J Chilean Chem Soc 2021;66(2):5142-5148.
- 426. Ritika A, Namrata D, Rita S, Aman J. Genome-wide evolutionary analysis of precursor sequences of MIR156 and MIR172 family members in Brassica species. Res J Biotechnol 2021;16(4):81-92.
- 427. Raul B, Bhattacharjee O, Tembhare K, Khanna T, Shaheen T, Sinharoy S, et al. Genome-wide identification of auxin response factors (ARFs) in three different species of Arachis. Plant Biotechnol Rep 2021;15(2):229-239.
- 428. Gu T, Wan F, Thakur P, Thakur A, Lalléchère S, Rahajandraibe W, et al. Dielectric Resonator Negative Group Delay Circuit. Radio Sci 2021;56(4).
- 429. Tripathy G, Goswami S, Das PP. Late Permian species diversity of the genus Glossopteris in and around Himgir, Ib River Basin, Odisha, India, with a clue on palaeoclimate and palaeoenvironment. Arab J Geosci 2021;14(8).
- 430. Sharma J, Sharma SC, Gahlot A. Kinetic theory of effect of dust charge fluctuations on the parametric decay of lower hybrid wave instability by relativistic runaway electrons in tokamak. Phys Plasmas 2021;28(4).
- 431. Mandal B, Madan S, Ahmad S, Sharma AK, Ansari MHR. Antiurolithic efficacy of a phenolic rich ethyl acetate fraction of the aerial parts of Aerva lanata (Linn) Juss. ex Schult. In ethylene glycol induced urolithic rats. J Pharm Pharmacol 2021;73(4):560-572.
- 432. Kanyowa T, Victor Nyakujara G, Ndala E, Das S. Performance analysis of Scheffler dish type solar thermal cooking system cooking 6000 meals per day. Sol Energy 2021;218:563-570.
- 433. Kumar K, Chen S-. Multiattribute decision making based on converted decision matrices, probability density functions, and interval-valued intuitionistic fuzzy values. Inf Sci 2021;554:313-324.
- 434. Hans S, Fatima Z, Hameed S. Insights into the modulatory effect of magnesium on efflux mechanisms of Candida albicans reveal inhibition of ATP binding cassette multidrug transporters and dysfunctional mitochondria. Biometals 2021;34(2):329-339.



- 435. Kumar K, Chen S-. Multiattribute decision making based on interval-valued intuitionistic fuzzy values, score function of connection numbers, and the set pair analysis theory. Inf Sci 2021;551:100-112.
- 436. Singh P, Kumar R, Yadav AK, Singh K. Security analysis and modified attack algorithms for a nonlinear optical cryptosystem based on DRPE. Opt Lasers Eng 2021;139.
- 437. Jaiswara PK, Gupta VK, Sonker P, Rawat SG, Tiwari RK, Pathak C, et al. Nimbolide induces cell death in T lymphoma cells: Implication of altered apoptosis and glucose metabolism. Environ Toxicol 2021;36(4):628-641.
- 438. Dhiman S, Yadav A, Debnath N, Das S. Application of Core/Shell Nanoparticles in Smart Farming: A Paradigm Shift for Making the Agriculture Sector More Sustainable. J Agric Food Chem 2021;69(11):3267-3283.
- 439. Viability of Mobile phone cameras in professional broadcasting: A case study of camera Efficiency of Apple iPhone 11. Proceedings of 2nd IEEE International Conference on Computational Intelligence and Knowledge Economy, ICCIKE 2021; 2021.
- 440. Khandaka H, Sharma KN, Joshi RK. Aerobic Cu and amine free Sonogashira and Stille couplings of aryl bromides/chlorides with a magnetically recoverable Fe304@Si02 immobilized Pd(II)-thioether containing NHC. Tetrahedron Lett 2021;67.
- 441. Behera K, Wani FA, Bhat AR, Juneja S, Banjare MK, Pandey S, et al. Behavior of lysozyme within ionic liquid-inwater microemulsions. J Mol Liq 2021;326.
- 442. Wahengbam K, Singh MP, Nongmeikapam K, Singh AD. A Group Decision Optimization Analogy-Based Deep Learning Architecture for Multiclass Pathology Classification in a Voice Signal. IEEE Sensors J 2021;21(6):8100-8116.
- 443. Ahanger IA, Bashir S, Parray ZA, Alajmi MF, Hussain A, Ahmad F, et al. Rationalizing the Role of Monosodium Glutamate in the Protein Aggregation Through Biophysical Approaches: Potential Impact on Neurodegeneration. Front Neurosci 2021;15.
- 444. Saini S, Sameer, Rana A, Yadav B. Diatomological mapping of bhakra nangal damand pong dam (Himachal pradesh, india). J South India Medicoleg Assoc 2021;13(1):1-5.
- 445. Kaur J, Dhama AS, Buttolia H, Kaur J, Walia K, Ohri V, et al. ICMR's Antimicrobial Resistance Surveillance system (i-AMRSS): A promising tool for global antimicrobial resistance surveillance. JAC-Antimicr Res 2021;3(1).
- 446. Bashir S, Ahanger IA, Shamsi A, Alajmi MF, Hussain A, Choudhry H, et al. Trehalose restrains the fibril load towards α-lactalbumin aggregation and halts fibrillation in a concentration-dependent manner. Biomolecules 2021;11(3):1-14.
- 447. Gupta V, Mani N, Sharma A. Some novel fixed-point theorems in Hausdorff spaces. J Appl Res Technol 2021;19(1):35-40.
- 448. Pal S, Mehta D, Dasgupta U, Bajaj A. Advances in engineering of low molecular weight hydrogels for chemotherapeutic applications. Biomed Mater 2021;16(2).
- 449. Billamboz M, Fatima Z, Hameed S, Jawhara S. Promising drug candidates and new strategies for fighting against the emerging superbug candida auris. Microorg 2021;9(3):1-39.
- 450. Mishra CB, Pandey P, Sharma RD, Malik MZ, Mongre RK, Lynn AM, et al. Identifying the natural polyphenol catechin as a multi-targeted agent against SARS-CoV-2 for the plausible therapy of COVID-19: An integrated computational approach. Brief Bioinform 2021;22(2):1346-1360.
- 451. Bhowmik D, Nandi R, Prakash A, Kumar D. Evaluation of flavonoids as 2019-nCoV cell entry inhibitor through molecular docking and pharmacological analysis. Heliyon 2021;7(3).
- Waghela BN, Vaidya FU, Pathak C. Upregulation of NOX-2 and Nrf-2 Promotes 5-Fluorouracil Resistance of Human Colon Carcinoma (HCT-116) Cells. Biochemistry Moscow 2021;86(3):262-274.
- 453. Gupta A, Sharma A, Singh H, Rajoria CS. Computational and statistical analysis on the U-tube heat exchanger with different passes configuration: Taguchi method. Heat Transf 2021;50(2):1712-1732.
- 454. Srivastava AK, Bhoyar PD, Kanawade VP, Devara PCS, Thomas A, Soni VK. Improved air quality during COVID-19 at an urban megacity over the Indo-Gangetic Basin: From stringent to relaxed lockdown phases. Urban Clim 2021;36.



- 455. Sreekanth V, Kar A, Kumar S, Pal S, Yadav P, Sharma Y, et al. Bile Acid Tethered Docetaxel-Based Nanomicelles Mitigate Tumor Progression through Epigenetic Changes. Angew Chem Int Ed 2021;60(10):5394-5399.
- 456. Reddy BS, Narayana PL, Maurya AK, Gupta V, Reddy YH, Alrefaei AF, et al. Modeling cyclic volatile methylsiloxanes removal efficiency from wastewater by ZnO-coated aluminum anode using artificial neural networks. J King Saud Univ Sci 2021;33(2).
- 457. Awasthi K, Srivastava A, Bhattacharya S, Bhattacharya A. Tissue specific expression of sialic acid metabolic pathway: role in GNE myopathy. J Muscle Res Cell Motil 2021;42(1):99-116.
- 458. Shandilya M, Kumar G, Gomkale R, Singh S, Khan MA, Kateriya S, et al. Multiple putative methemoglobin reductases in C. reinhardtii may support enzymatic functions for its multiple hemoglobins. Int J Biol Macromol 2021;171:465-479.
- 459. Saha S, Nandi R, Vishwakarma P, Prakash A, Kumar D. Discovering Potential RNA Dependent RNA Polymerase Inhibitors as Prospective Drugs Against COVID-19: An in silico Approach. Front Pharmacol 2021;12.
- 460. Arora A, Oswal P, Rao GK, Kumar S, Singh AK, Kumar A. Catalytically active nanosized Pd9Te4(telluropalladinite) and PdTe (kotulskite) alloys: first precursor-architecture controlled synthesis using palladium complexes of organotellurium compounds as single source precursors. RSC Adv 2021;11(13):7214-7224.
- 461. Pani T, Rajput K, Kar A, Sharma H, Basak R, Medatwal N, et al. Alternative splicing of ceramide synthase 2 alters levels of specific ceramides and modulates cancer cell proliferation and migration in Luminal B breast cancer subtype. Cell Death Dis 2021;12(2).
- 462. Hameed S, Hans S, Monasky R, Thangamani S, Fatima Z. Understanding human microbiota offers novel and promising therapeutic options against candida infections. Pathogens 2021;10(2):1-15.
- 463. Mukherjee T, Behl T, Sehgal A, Bhatia S, Singh H, Bungau S. Exploring the molecular role of endostatin in diabetic neuropathy. Mol Biol Rep 2021;48(2):1819-1836.
- 464. Ravelo B, Wan F, Li N, Xu Z, Thakur P, Thakur A. Diakoptics Modelling Applied to Flying Bird-Shape NGD Microstrip Circuit. IEEE Trans Circuits Syst Express Briefs 2021;68(2):637-641.
- 465. Mandpe A, Yadav N, Paliya S, Tyagi L, Ram Yadav B, Singh L, et al. Exploring the synergic effect of fly ash and garbage enzymes on biotransformation of organic wastes in in-vessel composting system. Bioresour Technol 2021;322.
- 466. Chiteka K, Arora R, Sridhara SN, Enweremadu CC. Influence of irradiance incidence angle and installation configuration on the deposition of dust and dust-shading of a photovoltaic array. Energy 2021;216.
- 467. Lal S, Snape TJ. A therapeutic update on PARP inhibitors: implications in the treatment of glioma. Drug Discov Today 2021;26(2):532-541.
- 468. Kumari A, Kumari K, Ahmed F, Alshoaibi A, Alvi PA, Dalela S, et al. Influence of Sm doping on structural, ferroelectric, electrical, optical and magnetic properties of BaTiO3. Vacuum 2021;184.
- 469. Kumar P, Sah AK, Tripathi G, Kashyap A, Tripathi A, Rao R, et al. Role of ACE2 receptor and the landscape of treatment options from convalescent plasma therapy to the drug repurposing in COVID-19. Mol Cell Biochem 2021;476(2):553-574.
- 470. Garg A, Negi A, Jindal P. Structure preservation of image using an efficient content-aware image retargeting technique. Signal Image Video Process 2021;15(1):185-193.
- 471. Bhardwaj R, Mani N, Sharma A. Time period of transverse vibration of skew plate with parabolic temperature variation. JVC/J Vib Control 2021;27(3-4):323-331.
- 472. Machine Learning-based Multiple Attack Detection in RPL over IoT. 2021 International Conference on Computer Communication and Informatics, ICCCI 2021; 2021.
- 473. Ahanger IA, Parray ZA, Nasreen K, Ahmad F, Hassan MI, Islam A, et al. Heparin Accelerates the Protein Aggregation via the Downhill Polymerization Mechanism: Multi-Spectroscopic Studies to Delineate the Implications on Proteinopathies. ACS Omega 2021;6(3):2328-2339.
- 474. Das A, Yadav N, Manchala S, Bungla M, Ganguli AK. Mechanistic Investigations of Growth of Anisotropic Nanostructures in Reverse Micelles. ACS Omega 2021;6(2):1007-1029.



- 475. Kumar V, Pandey S, Behera K. Aggregation behavior of a model carbocyanine dye: Polar organic solvent versus ionic liquid mixture. J Mol Liq 2021:322.
- 476. Oswal P, Arora A, Singh S, Rao GK, Kumar S, Singh AK, et al. Easily synthesizable benzothiazole based designers palladium complexes for catalysis of Suzuki coupling: Controlling effect of aryl substituent of ligand on role and composition of insitu generated binary nanomaterial (PdS or Pd16S7). Catal Commun 2021;149.
- 477. Sharma P, Kumari S, Ghosh D, Yadav V, Vij A, Rawat P, et al. Capping agent-induced variation of physicochemical and biological properties of α-Fe2O3 nanoparticles. Mater Chem Phys 2021;258.
- 478. Punia P, Bharti MK, Chalia S, Dhar R, Ravelo B, Thakur P, et al. Recent advances in synthesis, characterization, and applications of nanoparticles for contaminated water treatment- A review. Ceram Int 2021;47(2):1526-1550.
- 479. Chahar D, Taneja S, Bisht S, Kesarwani S, Thakur P, Thakur A, et al. Photocatalytic activity of cobalt substituted zinc ferrite for the degradation of methylene blue dye under visible light irradiation. J Alloys Compd 2021;851.
- 480. Sinha S, Thada V. Advances in Technology: Preparedness for Handling Pandemic Challenges. Enabling Healthcare 4.0 for Pandemics: A Roadmap Using Al, Machine Learning, IoT and Cognitive Technologies; 2021. p. 143-161.
- 481. Kulshrestha R, Pandey A. Sustainability of Tourism after the SARS Pandemic: Revisiting the Past Experiences. Virus Outbreaks and Tourism Mobility: Strategies to Counter Global Health Hazards; 2021. p. 75-93.
- 482. Saini AK, Kamra R, Shrivastava U. Conformance Checking Techniques of Process Mining: A Survey. Adv Parallel Comput 2021;39:335-341.
- 483. Singh S, Farooquee NA. Socio-Economic Status of Urban Slum Dwellers: A Case Study of Delhi. India: Disability, Health and Slum Issues; 2021. p. 287-288.
- 484. Bumbrah GS, Kaur K. STRYCHNINE POISONING A REVIEW OF LITRATURE. J South India Medicoleg Assoc 2021;13(2):133-142.
- 485. Sharma M, Narang K, Makhija S, Joy DT, Gupta N, Gupta R. Data interpretation leading to image processing: A hybrid perspective to a global pandemic, COVID-19. Data Science for COVID-19: Volume 2: Societal and Medical Perspectives; 2021. p. 681-703.
- 486. Comparative Study on Data Storage algorithms and solution to improve CIA on Cloud using Dynamic Encryption. 2021 International Conference on Computational Performance Evaluation, ComPE 2021; 2021.
- 487. Challenges of Attributed Access Control for Infrastructure as a Cloud of Services. 2021 International Conference on Computational Performance Evaluation, ComPE 2021; 2021.
- 488. Explainability Of Artificial Intelligence For Diagnosing COVID-19 From Chest X-Rays. 2021 International Conference on Computational Performance Evaluation, ComPE 2021; 2021.
- 489. Multi-Operator based Saliency Detection. 2021 International Conference on Computational Performance Evaluation, ComPE 2021; 2021.
- 490. Review of Attribute Based Access Control (ABAC) Models for Cloud Computing. 2021 International Conference on Computational Performance Evaluation, ComPE 2021; 2021.
- 491. Singh N, Ujinwal M, Dutta S, Hada A, Goel S. Current approaches in horticultural crops to mitigate the effect of salt stress. Stress Tolerance in Horticultural Crops: Challenges and Mitigation Strategies; 2021. p. 259-273.
- 492. Yepuri V, Dubey RS, Kumar B. A Low-Cost Fabrication Approach of UV, VIS and NIR Dielectric Reflectors. Springer Proc Mater 2021;5:355-362.
- 493. Kaushal A, Kala D, Verma V, Gupta S. Integrated low-cost biosensor for rapid and point-of-care cancer diagnosis. Biosensor Based Advanced Cancer Diagnostics: From Lab to Clinics; 2021. p. 385-393.
- 494. Kaushal A, Seth A, Kala D, Gupta S, Krishnia L, Verma V. Miniaturized devices for point-of-care testing/miniaturization and integration with microfluidic systems. Biosensor Based Advanced Cancer Diagnostics: From Lab to Clinics; 2021. p. 375-383.
- 495. Meenakshi, Mangla B, Upama, Shukla SK, Wang R, Thakur N, et al. Impact of environmental changes on life and environmental health. Functionalized Nanomaterials Based Devices for Environmental Applications; 2021. p. 1-12.



- 496. Development of Power Control Technique for Power Management in a Cluster of PV-Integrated Houses. Proceedings 2021 International Conference on Control, Automation, Power and Signal Processing, CAPS 2021; 2021.
- 497. A Review on Control Strategies for Wind Power Generation with DFIG for Smart Microgrid. Proceedings 2021 International Conference on Control, Automation, Power and Signal Processing, CAPS 2021; 2021.
- 498. Design of High Gain 2-11 GHz Wideband Common Gate LNA Using Shunt Series Peaking Technique for Wireless Applications. 2021 7th IEEE International Conference on Advances in Computing, Communication and Control, ICAC3 2021; 2021.
- 499. Jeevalatha A, Chakrabarti SK, Khurana SMP. Functional biology of potato-virus interactions. Plant Virus-Host Interaction: Molecular Approaches and Viral Evolution; 2021. p. 139-168.
- 500. Yadav N, Yadav DK, Yadav S, Khurana SMP. Viral movement-cellular protein interaction. Plant Virus-Host Interaction: Molecular Approaches and Viral Evolution; 2021. p. 59-109.
- 501. Sinha S, Yadav B, Bumbrah GS. Potential utility of Touch DNA in forensic investigations. J Indian Acad Forensic Med 2021;43(2):180-184.
- 502. Kori S. Forensic Application of Non-destructive ATR-FTIR Spectroscopic Technique for Organophosporus Pesticides Analysis. Indian J Forensic Med Pathol 2021;14(Special Issue 2):395-402.
- 503. A Study of the Impact of Internal Control Measures on ease of use of Forensic Audit Mediated by Artificial Intelligence Techniques. 2021 IEEE International Conference on Emerging Trends in Industry 4.0, ETI 4.0 2021; 2021.
- 504. Natural Scene Text Localization and Removal: Deep Learning and Navier-Stokes Inpainting Approach. Proceedings of CONECCT 2021: 7th IEEE International Conference on Electronics, Computing and Communication Technologies; 2021.
- 505. Rehman S, Ansari MA, Al-Dossary HA, Fatima Z, Hameed S, Ahmad W, et al. Current Perspectives on Mycosynthesis of Nanoparticles and Their Biomedical application. Modeling and Control of Drug Delivery Systems; 2021. p. 301-311.
- 506. Lahariya V, Kumari E, Singh N. Optical investigation of starch capped cadmium sulfide nanoparticles. Mater Today Proc 2021;48:622-625.
- 507. Bhardwaj R, Sharma A, Ghosh S, Mani N, Kumar K. Time Period of the Vibration of the Circular Plate with Circular Variation Both in Thickness and Density. Math Probl Eng 2021;2021.
- 508. Zaidi B, Ullah MS, Zahra S, Gagui S, Shekhar C. Analysis of I-V-T Characteristics of CH3NH3PbBr3 Perovskite Based Solar Cells. J Nano Electron Phys 2021;13(5):1-4.
- 509. Kumari L, Dogra TD, Kumar V. ADULT LEARNING IN ACTION: TYPOLOGY, PRINCIPLES AND APPLICATION OF ANDRAGOGY IN FORENSIC SCIENCE. Int J Med Toxicol Legal Med 2021;24(1-2):164-169.
- 510. Gahlot S, Kumar V, Kumari L, Tellewar S, Pandoh N. MORBIDITY AND MORTALITY FROM ROAD TRAFFIC ACCIDENT IN DELHI-NCR REGION: A COMPREHENSIVE STUDY. Int J Med Toxicol Legal Med 2021;24(1-2):175-177.
- 511. Kumari R, Rathi R, Pathak SR, Dalal V. Computational investigation of potent inhibitors against YsxC: structure-based pharmacophore modeling, molecular docking, molecular dynamics, and binding free energy. J Biomol Struct Dyn 2021.
- 512. Arora R. Thermodynamic investigations on 227 kWp industrial rooftop power plant. J Therm Eng 2021;7(7):1836-1842.
- 513. Bharti MK, Bansal L, Chalia S. Catalytic potential of microsized additives in enhancing the linear burn rate of potassium nitrate-sucrose based composite solid propellant strands. Int J Energ Mater Chem Propul 2021;20(4):61-77.
- 514. Charernnit K, Mathur A, Kankaew K, Alanya-Beltran J, Singh S, sudhakar PJ, et al. Interplay of shared leadership practices of principals, teachers' soft skills and learners' competitiveness in covid 19 era: Implications to economics of educational leadership. Estud Econ Apl 2021;39(12).



- 515. Dhanwantri K, Dhote M, Yadav KK, Rajendra K. Appraisal of ecosystem services and forest resource conservation in a tropical dry deciduous forest of Aravallis, India. Mod Cartogr 2021;10:659-678.
- 516. Yadav B, Jha M, Sahoo L, Maurya SK. Forensic identification of mifepristone and misoprostol by tlc and ft-ir methods. J Punjab Acad Forensic Med Toxicol 2021;21(1):129-135.
- 517. Rana R, Krishnia L, Walia RS, Murtaza Q. Cvd diamond coated tungsten carbide (wc) tool inserts. J Eng Res (Kuwait) 2021:2021:48-54.
- Fig. Rana R, Krishnia L, Murtaza Q, Walia RS. Optimizing the machining performance of cnc tools inserts coated with diamond like carbon coatings under the dry cutting environment. J Eng Res (Kuwait) 2021;2021:142-152.
- 519. Chiteka K, Arora R, Sridhara SN. A METHOD TO PREDICT FOULING ON MULTI-STOREY BUILDING MOUNTED SOLAR PHOTOVOLTAIC PANELS: A COMPUTATIONAL FLUID DYNAMICS APPROACH. J Therm Eng 2021;7(3):700-714.
- 520. Bandyopadhyay S, Kalangi SK, Singh V, Bhosale RS. Introduction to aggregation induced emission (AIE) materials. Prog Mol Biol Transl Sci 2021;184:1-9.
- 521. Distortion free image generation. 12th International Conference on Advances in Computing, Control, and Telecommunication Technologies, ACT 2021; 2021.
- 522. Sonbawne SM, Devara PCS, Bhawar R, Reddy RPRC, Siingh D, Fadnavis S, et al. Aerosol physico-optical-radiative characterization and classification during summer over Ny-Ålesund, Arctic. Int J Remote Sens 2021;42(22):8760-8781.
- 523. Joshi T, Gupta G. Effect of dynamic loading on hip implant using finite element method. Mater Today Proc 2021;46:10211-10216.
- 524. Ahmed MM, Fatima F, Anwer MK, Aldawsari MF, Bhatia S, Al-Harrasi A. Brigatinib loaded poly(d,l-lactide-co-glycolide) nanoparticles for improved anti-tumoral activity against non-small cell lung cancer cell lines. Drug Dev Ind Pharm 2021;47(7):1112-1120.
- 525. Kumar P, Vashisht M, Gupta N, Gupta R. Subthreshold Current Modeling of Stacked Dielectric Triple Material Cylindrical Gate All Around (SD-TM-CGAA) Junctionless MOSFET for Low Power Applications. Silicon 2021.
- 526. Sharma S, Behl T, Kumar A, Sehgal A, Singh S, Sharma N, et al. Targeting Endothelin in Alzheimer's Disease: A Promising Therapeutic Approach. BioMed Res Int 2021;2021.
- 527. Bhardwaj S, Bhardwaj N, Kumar V, Parashar B, Kakkar MK, Bhatti J. Computational Study Reliability of Diesel Engine through Electrical Assembly. Int J Integr Eng 2021;13(6):156-165.
- 528. Batra P, Jatain A. Hybrid model for evaluation of quality aware DevOps. Int J Appl Sci Eng 2021;18(5):1-11.
- 529. Chaudhary S, Jatain A. Analysing a novel multi-objective prioritization model using improved fuzzy c mean clustering. Int J Appl Sci Eng 2021;18(5):1-9.
- 530. Jatain A, Bajaj SB, Agarwal R, Bullah HR. Classification based levodopamine response prediction in parkinson's disorder. Appl Artif Intell 2021;35(15):1287-1303.
- 531. Sharma S, Vats M, Sharma J, Chhabra A, Kumar RKR, Chuang C-. Synthesis, characterization and photocatalytic activity of tin oxide nanocrystals. Curr Nanosci 2021;17(4):612-619.
- 532. Maiti A, Singh UN. The Impact of Brazenly Glorifying Sexual Abuse in Indian Film. J Media Ethics Explor Quest Media Morality 2021.
- Bodkhe M, Sharma S, Mourad A-I, Sharma PB. A review on SPD processes used to produce ultrafine-grained and multilayer nanostructured tubes. Mater Today Proc 2021;46:8602-8608.
- Nandi R, Bhowmik D, Srivastava R, Prakash A, Kumar D. Discovering potential inhibitors against SARS-CoV-2 by targeting Nsp13 Helicase. J Biomol Struct Dyn 2021.
- 535. Thakran M, Kumar S, Phogat R, Ray SK, Brajpuriya R, Rana AS, et al. High Pressure Growth Approach for the Preparation of Reduced Graphene Oxide and its Investigation Using Raman Spectroscopy. J Nano Electron Phys 2021;13(4):1-5.
- 536. Gaur RK, Sharma P, Khurana SMP, Hohn T. Plant Virus-Host Interaction: Molecular Approaches and Viral Evolution. Plant Virus-Host Interaction: Molecular Approaches and Viral Evolution; 2021. p. 1-551.



- 537. Arumugam AB, Subramani M, Dalakoti M, Jindal P, Selvaraj R, Khalife E. Dynamic characteristics of laminated composite CNT reinforced MRE cylindrical sandwich shells using HSDT. Mech Based Des Struct Mach 2021.
- 538. Harikrishnan VK, Deore H, Raju P, Agrawal A, Sharma MM. Predictive Analysis Using Machine Learning Techniques for Fantasy Games. Lect Notes Mech Eng 2021:683-692.
- 539. Swati, Bajaj SB, Jaglan V. Locking Paradigm in Hierarchical Structure Environment. Lect Notes Mech Eng 2021:653-661.
- Zaidi B, Shekhar C, Gagui S, Kamli K, Hadef Z, Hadjoudja B, et al. Annealing and hydrogenation effects on the electrical properties of polysilicon thin films. Nanosist Nanomater Nanotehnol 2021;19(1):133-138.
- 541. Malik N, Gupta S, Jaglan V, Vijarania M. Searching Sub-classes Within Type Ia Supernova Using DBSCAN. Commun Comput Info Sci 2021;1393:79-88.
- 542. Dudeja JP. Laser technology for analysis, cleaning and restoration of ancient painted artworks. Lasers Eng 2021;48(1):1-15.
- 543. Mishra L, Kaushik V. Application of blockchain in dealing with sustainability issues and challenges of financial sector. Journal of Sustain Finance Invest 2021.
- 544. Singh AK, Patro BDK. Security Attacks on RFID and their Countermeasures. Lect Notes Networks Syst 2021;197 LNNS:509-518.
- 545. Joon I, Das S, Srivastava CM. Fabrication of Metal-Doped Polymer to Study Its Thermal and Mechanical Properties. Lect Notes Mech Eng 2021:31-42.
- 546. Maruthi M, Kalangi SK. Advances in aggregation induced emission (AIE) materials in biosensing and imaging of bacteria. Prog Mol Biol Transl Sci 2021;184:61-79.
- 547. Bhagat DS, Chawla PA, Gurnule WB, Shejul SK, Bumbrah GS. An insight into synthesis and anticancer potential of thiazole and 4-thiazolidinone containing motifs. Curr Org Chem 2021;25(7):819-841.
- 548. Kumar S, Bhagat DS, Bumbrah GS. 1,2-indanedione (Ind) reagent for the detection of latent fingermarks: A review. Arab J Forensic Sci Forensic Med 2021;3(1):77-93.
- 549. Jain M, Manju, Vij A, Thakur A. Synthesis methods of spinel based luminescent materials. Phosphors for Display, Forensic and Biomedical Application; 2021. p. 47-81.
- 550. Charaya N, Kumar A, Singh P. Dorsal Hand Vein Extraction in Uncontrolled Environment. Intl J Adv Comput Sci Appl 2021;12(6):563-568.
- Bhatt S, Kanoujia J, Dhar AK, Singh RK, Rajangam J. Current and future scenario of immunotherapy for the treatment of hepatocellular carcinoma. Curr Cancer Ther Rev 2021;17(2):148-158.
- 552. Aarya S, Kumar P, Bhatia M, Kumar S, Sharma J, Siddhartha. Gamma Rays Induced Modification in Ultrahigh Molecular Weight Polyethylene (UHMWPE). Adv Polym Technol 2021;2021.
- 553. Yadav A, Das S, Biswas S, Yadav A, Debnath N. Effect of synthetic route in particle size distribution of zinc oxide, silver and carbon nanoparticles and its role in controlling phytopathogenic fungus Alternaria solani. Arch Phytopathol Plant Prot 2021;54(19-20):1675-1688.
- 554. Satvika S, Thada V, Singh J. A Contemporary Ensemble Aspect-based Opinion Mining Approach for Twitter Data. Intl J Adv Comput Sci Appl 2021;12(5):196-202.
- 555. Bhatia S, Sharma AK, De La Cruz CBV, Chaugule B, Al-Harrasi A. Nutraceutical, antioxidant, antimicrobial properties of pyropia vietnamensis (Tanaka et pham-hong ho) j.e. sutherl. et monotilla. Curr Bioact Compd 2021;17(2):151-164.
- 556. Sharma P, Yadav V, Kumari S, Ghosh D, Rawat P, Vij A, et al. Deciphering the potent application of nanobentonite and α-Fe2O3/bentonite nanocomposite in dye removal: revisiting the insights of adsorption mechanism. Appl Nanosci (Switzerland) 2021.
- 557. Yepuri V, Dubey RS, Kumar B. Prohibition of infrared electromagnetic waves through optical coatings on plain glasses. Mater Today Proc 2021;45:2883-2886.
- 558. Pandya G, Kirtonia A, Singh A, Goel A, Mohan CD, Rangappa KS, et al. A comprehensive review of the multifaceted role of the microbiota in human pancreatic carcinoma. Semin Cancer Biol 2021.



- 559. Anand M, Singh S. In vitro large scale clonal propagation of achyranthes aspera I.: A high value medicinal plant. Med Plants 2021:13(1):91-98.
- 560. Pursuwani BH, Bhatt BS, Raval DB, Thakkar VR, Sharma J, Pathak C, et al. Synthesis, characterization, and biological applications of pyrazole moiety bearing osmium(IV) complexes. Nucleosides Nucleotides Nucleic Acids 2021;40(6):593-618.
- Koul R, Kumar N, Singh RC. Emission Characteristics of Renewable Diesel and Its Comparison with the Diesel Fuel on Single-Cylinder Diesel Engine. Lect Notes Mech Eng 2021:597-605.
- 562. Kumar KNS, Sharma S, Mourad A-I, Sharma PB. A Literature Review for Development of Advanced Composites Materials by Reinforcement of Epoxy Composites with Graphene and Natural Silk. Lect Notes Mech Eng 2021:341-353.
- 563. Kant S, Joshi T, Sharma R. Modeling and Analysis of Composite Bullet-Resistant Jacket. Lect Notes Mech Eng 2021:375-386.
- Joshi T, Sharma R, Parkash O, Gupta A. Design and Analysis of Metal-To-Metal Contact Bolted Flange Joint Using FEA Tool. Lect Notes Mech Eng 2021:315-325.
- 565. Pradhan S, Singh H, Parkarsha O. Bending Strength Analysis of Involute Helical Gear Using FEA Software. Lect Notes Mech Eng 2021:651-660.
- Bharti MK, Chalia S, Thakur P, Hermosa GC, Aidan Sun A-, Thakur A. Low-loss characteristics and sustained magneto-dielectric behaviour of cobalt ferrite nanoparticles over 1–6 GHz frequency range. Ceram Int 2021.
- 567. Sinha S, Dhamiwal A, Sharma P. Cluster-Based Approaches for Energy Efficiency in Wireless Sensor Network. Lect Notes Networks Syst 2021;177 LNNS:655-664.
- Ajayi LK, Azeta A, Misra S, Odun-Ayo I, Ajayi PT, Azeta V, et al. Enhancing the Low Adoption Rate of M-commerce in Nigeria Through Yorùbá Voice Technology. Adv Intell Sys Comput 2021;1375 AIST:516-524.
- Joon A, Tyagi RK, Chillar K. Literature Review: Predicting Faults in Object-Oriented Software. Lect Notes Electr Eng 2021;721 LNEE:309-323.
- 570. Kumari A, Kumari K, Aljawfi RN, Alvi PA, Dalela S, Ahmad MM, et al. Role of La substitution on structural, optical, and multiferroic properties of BiFeO3 nanoparticles. Appl Nanosci (Switzerland) 2021.
- 571. Kaushik A, Thada V. VG4 Cipher: Digital Image Encryption Standard. Intl J Adv Comput Sci Appl 2021:12(4):127-133.
- 572. Midha S, Tripathi K, Sharma MK. Practical Implications of Using Dockers on Virtualized SDN. Webology 2021;18(SpecialIssue1):312-330.
- 573. Kumar S, Ashraf MU, Kumar A, Bae Y-. Therapeutic potential of microRNA against th2-associated immune disorders. Curr Top Med Chem 2021:21(8):753-766.
- 574. Yadav P, Surolia PK, Vaya D. Synthesis and application of copper ferrite-graphene oxide nanocomposite photocatalyst for the degradation of malachite green. Mater Today Proc 2021;43:2949-2953.
- 575. Kalpana G, Prasad DP, Manoranjan M. Synthetic surface growth and its effect on ambient particulate matter in Delhi-NCR region: A geospatial investigation. Res J Chem Environ 2021;25(1):40-47.
- 576. Mishra CB, Mongre RK, Prakash A, Jeon R, Supuran CT, Lee M-. Anti-breast cancer action of carbonic anhydrase IX inhibitor 4-[4-(4-Benzo[1,3]dioxol-5-ylmethyl-piperazin-1-yl)-benzylidene-hydrazinocarbonyl]-benzenesulfonamide (BSM-0004): in vitro and in vivo studies. J Enzyme Inhib Med Chem 2021;36(1):954-963.
- 577. Narayanan A, Vadnala RN, Ganguly P, Selvakumar P, Rudramurthy SM, Prasad R, et al. Functional and comparative analysis of centromeres reveals clade-specific genome rearrangements in candida auris and a chromosome number change in related species. mBio 2021;12(3).
- 578. Kumar A, Kaur K. Impact of system parameters of optical fiber link on four wave mixing. Recent Advances in Computer Science and Communications 2021;14(1):122-133.
- 579. Kaur K, Kumar A. Role of self phase modulation and cross phase modulation on quality of signal in optical links. Recent Advances in Computer Science and Communications 2021;14(1):109-121.



- Vats M, Bhardwaj S, Chhabra A. Green synthesis of copper oxide nanoparticles using cucumis sativus (Cucumber) extracts and their bio-physical and biochemical characterization for cosmetic and dermatologic applications. Endocr Metab Immune Disord Drug Targets 2021;21(4):726-733.
- 581. Singh M, Vaya D, Kumar R, Das BK. Role of EDTA capped cobalt oxide nanomaterial in photocatalytic degradation of dyes. J Serb Chem Soc 2021;86(3):327-340.
- 582. Bala N, Vyas R, Gupta R, Kumar A. Iris Recognition Using Improved Xor-Sum Code. Lect Notes Electr Eng 2021;744 LNEE:107-117.
- 583. Gupta N, Kumar P. Elicitation of scattering parameters of dual-halo dual-dielectric triple-material surrounding gate (DH-DD-TM-SG) MOSFET for microwave frequency applications. Adv Electr Electron Eng 2021;19(1):66-73.
- 584. Kumari G, Singh V, Chhajer B, Jhingan AK. Effect of lifestyle intervention holistic approach on blood glucose levels, health-related quality of life and medical treatment cost in type 2 diabetes mellitus patients. Acta Sci Health Sci 2021;43.
- 585. Kumar G, Deep A, Kumar S, Nandal R, Singh I, Kaushik M, et al. Phytochemical screening, antimalarial, antioxidant, anti-inflammatory, and antimicrobial potential of ananas comosus extract. Anti-Infect Agents 2021;19(1):49-56.
- 586. Kumar A, Pandit V, Nagaich U. Preparation and evaluation of copper nanoparticles loaded hydrogel for burns. Int J Appl Pharm 2021;13(2):180-189.
- 587. Bhardwaj R, Mani N. Vibration of skew plate having exponential variation in young's modulus and density. J Theor Appl Mech 2021;51(1):92-102.
- 588. Chatterji N, Kiran R. Intellectual capital and intellectual imperatives of higher education sector: An emerging economy perspective. Int J Learn Intellect Cap 2021;18(1):45-68.
- 589. Atale N, Mishra CB, Kohli S, Mongre RK, Prakash A, Kumari S, et al. Anti-inflammatory Effects of S. cumini Seed Extract on Gelatinase-B (MMP-9) Regulation against Hyperglycemic Cardiomyocyte Stress. Oxidative Med Cell Longevity 2021;2021.
- 590. Azeez E, Siva P, Kumar A, Negi D. Are village health, sanitation, and nutrition committees functional? Evidence from Chhattisgarh and Madhya Pradesh. Indian J Community Med 2021;46(1):80-84.
- 591. Arora R, Agrawal A, Arora R, Poonia RC, Madaan V. Prediction and forecasting of COVID-19 outbreak using regression and ARIMA models. J Interdiscip Math 2021;24(1):227-243.
- 592. Agrawal A, Arora R, Arora R, Agrawal P. Applications of Artificial Intelligence and Internet of Things for Detection and Future Directions to Fight Against COVID-19. Stud Syst Decis Control 2021;324:107-119.
- 593. Azeez E, Anbuselvi G. Is the Kerala model of community-based palliative care operations sustainable? Evidence from the field. Indian J Palliative Care 2021;27(1):18-22.
- Malhotra R, Chandramowliswaran N. Key Distribution Using Graphs for Secret Sharing. Turk World Math Soc J App Eng Mat 2021;11:63-74.
- 595. Agrawal P, Madaan V, Roy A, Kumari R, Deore H. FOCOMO: Forecasting and monitoring the worldwide spread of COVID-19 using machine learning methods. J Interdiscip Math 2021;24(2):443-466.
- 596. Dhar S, Singh P, Singh J, Yadav AK, Yadav S. Analysis of discharge patterns of subthalamic nucleus and external globus pallidus coupling in parkinson condition using particle swarm optimization algorithm. Dyn Contin Discrete Impulsive Syst Ser B Appl Algorithms 2021;28(1):25-40.
- 597. Chugh A, Sharma VK, Kumar S, Nayyar A, Qureshi B, Bhatia MK, et al. Spider Monkey Crow Optimization Algorithm with Deep Learning for Sentiment Classification and Information Retrieval. IEEE Access 2021;9:24249-24262.
- 598. Banerjee A, Pata J, Sharma S, Monk BC, Falson P, Prasad R. Directed mutational strategies reveal drug binding and transport by the MDR transporters of Candida albicans. J Fungi 2021;7(2):1-16.
- 599. Sharma P, Singh A, Singh KK, Dhull A. Vehicle identification using modified region based convolution network for intelligent transportation system. Multimedia Tools Appl 2021.



- 600. Singh R, Mehra R, Walia A, Gupta S, Chawla P, kumar H, et al. Colorimetric sensing approaches based on silver nanoparticles aggregation for determination of toxic metal ions in water sample: a review. Int J Environ Anal Chem 2021.
- Hans S, Fatima Z, Hameed S. Metabolic fitness of Candida albicans is indispensable for functional drug efflux, ergosterol, and chitin biosynthesis. Curr Med Mycol 2021;6(3):9-14.
- 602. Seth B, Dalal S, Le D-, Jaglan V, Dahiya N, Agrawal A, et al. Secure cloud data storage system using hybrid paillier blowfish algorithm. Comput Mater Continua 2021;67(1):779-798.
- 603. Azeez E P A, Negi DP, Choudhary P. The Customary Practice of Nata Pratha in Rajasthan, India: Is It Freedom or Captivity for Women? J Divorce Remarriage 2021;62(2):127-143.
- 604. Saibabu V, Fatima Z, Khan LA, Hameed S. Mechanistic insights into the anticandidal action of vanillin reveal disruption of cell surface integrity and mitochondrial functioning. Infect Disord Drug Targets 2021;21(3):405-415.
- 605. Lal S, Shekher A, Puneet, Narula AS, Abrahamse H, Gupta SC. Cannabis and its constituents for cancer: History, biogenesis, chemistry and pharmacological activities. Pharmacol Res 2021;163.
- 606. Kumawat S. Chinese postman problem: A petri net based approach. Adv Intell Sys Comput 2021;1257:203-222.
- Banerjee A, Moreno A, Pata J, Falson P, Prasad R. ABCG: a new fold of ABC exporters and a whole new bag of riddles! Adv Protein Chem Struct Biol 2021;123:163-191.
- 608. Sharma N, Arora Y, Makkar P, Sharma V, Gupta H. Real Estate Price's Forecasting Through Predictive Modelling. Lect Notes Networks Syst 2021;141:589-597.
- 609. Sharma N, Arora Y, Makkar P. Bitcoin Cost Prediction Using Neural Networks. Lect Notes Networks Syst 2021:141:599-611.
- 610. Azeez E P A, Negi DP, Rani A, A P SK. The impact of COVID-19 on migrant women workers in India. Eurasian Geogr Econ 2021;62(1):93-112.
- 611. Manju, Jain M, Vashishtha P, Gupta G, Sharma A, Won SO, et al. Switchable cool and cold white emission from dysprosium doped SrZnO2. J Phys Condens Matter 2021;33(3).
- 612. Gandhi H, Tomar A, Singh D. A Predicted Mathematical Cancer Tumor Growth Model of Brain and Its Analytical Solution by Reduced Differential Transform Method. Adv Intell Sys Comput 2021;1169:203-213.
- 613. Gandhi H, Tomar A, Singh D. Lie Symmetry Analysis to General Fifth-Order Time-Fractional Korteweg-de-Vries Equation and Its Explicit Solution. Adv Intell Sys Comput 2021;1169:189-201.
- 614. Dhar S, Singh P, Singh J, Yadav AK. Optimization of Discharge Patterns in Parkinson Condition in External Globus Pallidus Model of Basal Ganglia Using Particle Swarm Optimization Algorithm. Adv Intell Sys Comput 2021;1169:281-291.
- 615. Niranjan Kumar, Srivastava R, Prakash A, Lynn AM. Virtual screening and free energy estimation for identifying Mycobacterium tuberculosis flavoenzyme DprE1 inhibitors. J Mol Graph Model 2021;102.
- Karkra S, Singh P, Kaur K, Sharma R. Deep Learning Architectures: A Hierarchy in Convolution Neural Network Technologies. Lect Notes Mech Eng 2021:439-457.
- 617. Kumar M, Singh A, Kumari S, Kumar P, Wasi M, Mondal AK, et al. Sphingolipidomics of drug resistant Candida auris clinical isolates reveal distinct sphingolipid species signatures. Biochim Biophys Acta Mol Cell Biol Lipids 2021;1866(1).
- 618. Gupta R, Shah J, Das R, Saini S, Kotnala RK. Defect-mediated ionic hopping and green electricity generation in Al2–xMgxO3-based hydroelectric cell. J Mater Sci 2021;56(2):1600-1611.
- 619. Midha S, Tripathi K. Extended Security in Heterogeneous Distributed SDN Architecture. Lect Notes Electr Eng 2021;668:991-1002.



- 620. Abdul Azeez EP, Selvi GA, Sharma G, Senthil Kumar AP. What attracts and sustain urban poor to informal healthcare practitioners? A study on practitioners' perspectives and patients' experiences in an Indian city. Int J Health Plann Manage 2021;36(1):83-99.
- 621. Chiteka K, Arora R, Sridhara SN, Enweremadu CC. Optimizing wind barrier and photovoltaic array configuration in soiling mitigation. Renew Energy 2021;163:225-236.
- 622. Fatima N. Solution of Gas Dynamic and Wave Equations with VIM. Lect Notes Mech Eng 2021:81-91.
- 623. Nanda A, Jatain A. Analysis of Breast Cancer Detection Techniques Using RapidMiner. Adv Intell Sys Comput 2021:1164:3-14.
- 624. Kumar P, Dudeja C. Shadowed type 2 fuzzy-based Markov model to predict shortest path with optimized waiting time. Soft Comput 2021;25(2):995-1005.
- 625. Kumari S, Kumar M, Khandelwal NK, Pandey AK, Bhakt P, Kaur R, et al. A homologous overexpression system to study roles of drug transporters in Candida glabrata. FEMS Yeast Res 2021;20(4).
- 626. Kirtonia A, Gala K, Fernandes SG, Pandya G, Pandey AK, Sethi G, et al. Repurposing of drugs: An attractive pharmacological strategy for cancer therapeutics. Semin Cancer Biol 2021;68:258-278.
- 627. Prakash A, Kumar V, Banerjee A, Lynn AM, Prasad R. Structural heterogeneity in RNA recognition motif 2 (RRM2) of TAR DNA-binding protein 43 (TDP-43): clue to amyotrophic lateral sclerosis. J Biomol Struct Dyn 2021;39(1):357-367.
- 628. Singh R, Thakur P, Thakur A, Kumar H, Chawla P, V. Rohit J, et al. Colorimetric sensing approaches of surface-modified gold and silver nanoparticles for detection of residual pesticides: a review. Int J Environ Anal Chem 2021;101(15):3006-3022.
- 629. Sharma IP, Bakshi R, Chaudhry M. Corneal collagen cross-linking with and without simultaneous intrastromal corneal ring segment implantation: One-year pilot study. Eur J Ophthalmol 2021;31(1):61-68.
- 630. Aiwerioghene EM, Singh M, Ajmera P. Modelling the factors affecting Nigerian medical tourism sector using an interpretive structural modelling approach. Int J Healthc Manage 2021;14(2):563-575.
- 631. Koul R, Kumar N, Singh RC. A review on the production and physicochemical properties of renewable diesel and its comparison with biodiesel. Energy Sources Recovery Util Environ Eff 2021;43(18):2235-2255.
- 632. Chiteka K, Arora R, Jain V. CFD Prediction of dust deposition and installation parametric optimisation for soiling mitigation in non-tracking solar PV modules. Int J Ambient Energy 2021;42(11):1307-1320.



SKILL INITIATIVES



SKILL INITIATIVES – LSSSDC & AUH, MOU SIGNED

LSSSDC Partners with Amity University Haryana to drive Employability August 13, 2022 Neel Achary Education









1. Mr. Anshul Saxena, Sr. Director LSSSDC delivering a talk on "Skills: The wings for Quality Professionals for Glorious Future" at AUH; 2. Team members of LSSSDC New Delhi and AUH, Gurugram. 3. Dr Nivedita Murkute, Sr. Director: Assessment, Accreditation & Certification, and Dr Machiavelli Singh, Director DRP, AUH exchanging MoU signed between LSSSDC and AUH on 15 July 2022 World Skills Day at LSSSDC head office, New Delhi.

The Life Sciences Sector Skill Development Council (LSSSDC) – NCVET approved, Indian Vocational Awarding Body under the Ministry of Skill Development & Entrepreneurship (MSDE) for Life Sciences Sector (Pharma, Biotech & Contract Research) has partnered with the Amity University Haryana (AUH), to collaborate to mutually leverage capabilities around skilling and placement. The MoU, which has been signed for a period of three years, is primarily focused on working together for the delivery of Industry oriented qualification programs to the students of AUH and other aspirants from Haryana & nearby states. This collaboration shall result in Co-certification for PG Diploma in Quality Control Analysis & Instrumentation by AUH with LSSSDC. AUH has been imparting excellent industry-oriented training programs on its campus since its inception. This partnership has a lot of potentials to create a stir in the skill ecosystem and potentially shall lead to long-duration degree (3 years) programs in high-demand skills for the Life Sciences Sector which is already being welcomed wholeheartedly by the industry. With an experienced staff and strong vision, AUH is an ideal collaborator for us in our journey helping drive the employability of candidates qualifying for the jointly run programs." said Mr. Anshul Saxena, Sr. Director, LSSSDC.



LSSSDC will support AUH to create and develop the Center of Excellence (CoE) jointly operated at AUH. LSSSDC has already established CoE's across India and plans to expand its 'network of excellence' along with AUH association. "As academic partners of LSSSDC, we will create Life Sciences programs and training labs that will set apart the candidates passing out of AUH. The MoU also outlines the joint commitment towards the development of new programs for skill training.

The LSSSDC team led by Mr. Anshul Saxena, Sr. Director along with members Dr. Nivedita Murkute, Sr. Director: Assessment, Accreditation & Certification, Mr. Ankit Rana, Cluster Head: North India and Ms. Shivi Chaudhary, Head Dept. Standards and Learning Resources were present. The AUH team led by Prof. Rajendra Prasad, Dean Faculty of Science along with Dr. Machiavelli Singh, Director DRP and Dr. Kaustav Bandyopadhyay, Assistant Professor, Amity Institute of Biotechnology were present for active coordination and successful launch of the program.

PRESS COVERAGE

- https://contentmediasolution.com/education/lsssdc-partners-with-amity-university-haryana-to-drive-employability/
- http://businessnewsthisweek.com/education/lsssdc-partners-with-amity-university-haryana-to-drive-employability/
- http://mediabulletins.com/education/lsssdc-partners-with-amity-university-haryana-to-driveemployability/
- https://onlinemediacafe.com/education/lsssdc-partners-with-amity-university-haryana-to-driveemployability/
- https://businessnewsweek.in/education/lsssdc-partners-with-amity-university-haryana-to-driveemployability/
- https://biznewsdesk.com/education/lsssdc-partners-with-amity-university-haryana-to-driveemployability/
- https://smartbusinesnews.com/education/lsssdc-partners-with-amity-university-haryana-to-driveemployability/



NATIONAL CONFERENCE



90TH ANNUAL MEETING OF SBCI 16-19 DECEMBER. 2021 AT AUH

90th Virtual Annual Meeting of The Society of Biological Chemists India (SBCI), held at Amity University Haryana, Gurugram





Amity University Haryana (AUH), Haryana organized the 90th annual meeting of The Society of Biological Chemists (SBC), under the theme "Metabolism to Drug Discovery: Where Chemistry and Biology Unite" from16th to 19th December 2021. The Amity Institute of Biotechnology (AIB), and Amity Institute of Integrative Sciences and Health (AIISH) worked hand in hand to successfully organize this meeting. Due to the continuing COVID-19 pandemic, the meeting was held entirely on a virtual platform.

The scientific sessions were spread across four days (16-19 December. 2021) which included 75 invited talks, 3 award lectures, as well as 4 plenary lectures from eminent scientific figures, 138 scholars presented posters and more than 900 delegates participated online.

The organising committee of 90th SBCI meeting decided to have not only thematic scientific sessions, but also held a very contemporary session dedicated on 'Covid-19: an Indian Perspective' focusing on real perspective of Covid pandemic and vaccine development by leading stakeholders.

At the inauguration, Dr D N Rao, distinguished scientist, from IISc, and President Elect of SBCI delivered a welcome address expressing the vision and mission of society. Dr Utpal Nath, Secretary, SBCI, and Dr Usha Vijayaraghavan, Vice President, SBCI were the other panellists in the inaugural session.



Chief Guest Dr Shekhar C. Mande, DG, CSIR while speaking on "CSIR for New AatmaNirbhar Bharat" during the occasion said, "Pandemics like SARS-Covid 2 have been predicted for a long time in history. It was expected to be just around the corner for the last 25 years or so. In my own lab, what we realised in July or Aug 2020 that the mortality rate around the world appeared to have strange dichotomy. More died in richer countries than poorer countries. All components of a kit must be locally made. Everything you do, the basic thing that is required must be available in the closer geographical neighbourhood. The AatmaNirbhar Bharat is a powerful concept. It is imperative we embrace the concept of AatmaNirbhar Bharat" added Dr Mande.





Guest of Honor Dr Ram Vishwakarma, Advisor, CSIR & Chairman, COVID Strategy Group of CSIR while expressing his thoughts on "COVID Mitigation Strategies of CSIR" said, "Pandemics of this nature comes once in 250 or 300 years. Training of human resources is important. The Scientific and Medical community in this country rose to the challenge remarkably well. The 38 CSIR National Institutes were well positioned to strengthen India's preparedness and response to covid-19. Covid Strategy Group (CSG) was constituted with 5 Technology verticals to be led by the directors, added Dr Vishwakarma.

Dr Ashok K. Chauhan, Founder President, Amity Education Group delivered his word of wisdom on "Way Ahead and Future Roadmaps". He also

shared his vision on how scientists from different Amity campuses can contribute to the biochemical bloom in India. Dr Aseem Chauhan, Chancellor, Amity University Haryana while sharing his vision and mission, emphasised on the importance of biochemistry in the era of drug discovery revolution. Prof. P.B. Sharma, Vice Chancellor, Amity University Haryana explained the importance of 'Life Tech' in the next decade. Prof Rajendra Prasad, President SBCI & Convenor, Dean Faculty of Engineering, Science & Technology, and Director, AIB&AIISH, highlighted the R&D efforts of life science programmes of Amity University Haryana.

The four well attended Plenary Lectures delivered by distinguish scientists Drs. Partha P. Majumder, NIBMG, Kolkata; V. Nagaraja, IISc, Bangalore; R. Sankarnarayanan, CCMB, Hyderabad; and Gaiti Hasan, NCBS, Bangalore.

Over 75 speakers invited from all over the country participated in the four-day meeting. A special session on 'COVID 19 – An Indian Perspective', was chaired by Dr Sudhanshu Vrati, Executive Director, Regional Centre of Biotechnology (RCB), Faridabad. The first speaker was Dr Anurag Agrawal, Director CSIR – Institute of Genomics and Integrative Biology (IGIB), New Delhi delivered a very informative talk on 'COVID19: Genome Surveillance followed by Dr. Sanjay Singh, CEO Gennova Biopharma who gave an insight on the development of mRNA vaccine against Covid-19: A paradigm shift in vaccinology. Dr. R. Varadarajan, IISc, highlighted the Immunogen design for COVID-19 along with Dr Lalith Kishore, CCAMP, Bangalore who presented the Indian scenario of the Indigenization of Diagnostics-CCAMP- InDx Journey in India. The entire session focused on the recent scientific updates and strategies to combat the COVID-19 pandemic in society at large.

A special session on the History of Biochemistry was organised and chaired by Prof. Umesh Varshney, IISc, Bangalore. The octogenarian stalwart speakers were Prof. GP Talwar, Talwar Research Foundation, New Delhi who spoke on 'Evolution of Biochemistry in Medical Institutions', Prof. G Padmanabhan, CUTN, IISc., Bangalore on 'Known Molecules: New Applications Stand on Shoulders of Giants'. Prof. D.J. Chattopadhyay, SNU, Kolkata described the History of Biochemistry in Eastern India.

The three award lectures included P. B. Rama Rao Memorial Award, Dr. M. Shadaksharaswamy Endowment Lecture Award and C. R. Krishna Murti Lecture Award were delivered by the awardees Dr Samir K. Maji, IIT Bombay on 'Prion-like p53 amyloids in cancer pathogenesis'; Dr Suman K. Dhar, JNU, New Delhi on Unique biology and possible interventions for therapy against human malaria parasite Plasmodium falciparum and by Dr Kausik Chattopadhyay, IISER Mohali, on The (w)hole story of the β -barrel pore-formation mechanism of Vibrio cholerae cytolysin, respectively. The four-day scheduled scientific programme was followed as planned. The Executive Council (EC) meeting of the society and the Annual General Body meeting of the society was also conducted during this conference.



P. B. RAMA RAO MEMORIAL AWARD



Prion-like p53 amyloids in cancer pathogenesis

Samir K Maji Department of Biosciences and Bioengineering, IIT Bombay, Powai, Mumbai, 400076 samirmaji@iitb.ac.in

Prof. Samir K. Maji from IIT Bombay is the recipient of 2021 P. B. RAMA RAO MEMORIAL AWARD, which is given once in every three years. This award is provided for the best work done in the field of Biochemistry and Allied Sciences in India (suggested areas are nutrition, as related to cell and membrane biology, neurochemistry immunology, cancer research, biochemistry of brain etc.)

PROF. M. SHADAKSHARASWAMY ENDOWMENT LECTURE AWARD



Unique biology and possible interventions for therapy against human malaria parasite Plasmodium falciparum

Suman Kumar Dhar Special Centre for Molecular Medicine, Jawaharlal Nehru University, New Delhi-67, India

Prof. Suman K. Dhar from JNU is the recipient of 2021 PROF. M. SHADAKSHARASWAMY ENDOWMENT LECTURE AWARD, which is given once in every three years. This endowment lecture is orated by one of the Eminent teachers in Biological Chemistry & Allied Sciences at the postgraduate level in Indian Universities, deemed Universities and Institutions of higher learning for their contributions in teaching and research.

C. R. KRISHNA MURTI AWARD



The (w)hole story of the beta-barrel pore-formation mechanism of Vibrio cholerae cytolysin

Kausik Chattopadhyay Department of Biological Sciences, Indian Institute of Science Education and Research Mohali

Dr. Kausik Chattopadhyay from IISER Mohali is the recipient of 2021 C. R. KRISHNA MURTI AWARD. This award is given for the best work done in the field of Biochemistry and Allied Sciences in India, once in every three years.



The 90th SBCI was unique in the sense that entire proceedings of the meeting spread over four days was done on a virtual platform which was outsourced from a professional agency that went flawless. The scientific programme was managed by Dr. Ujjaini Dasgupta and Dr Kaustav Bandyopadhyay who mostly invited young researchers from various academic and research institutes across India. The conference had 3 Award Lectures, 4 Plenary lectures, and 70 Invited Lectures. There were also 138 poster presentations by students and faculty members who presented their posters in s special virtual poster session. The posters represented research performed in diverse fields of biochemistry. A nominated jury reviewed the 138 posters and top 10% posters were selected for award. Each awardee was given a 'Certificate of Recognition' along with the cash prize of Rs 2000.

List of Poster Awardees

Akanksha Bhardwaj,,

National Institute of Plant Genome Research NIPGR, Delhi, abhardwaj@nipgr.ac.in

Deevita Srivastava,

National Institute of Plant Genome Research NIPGR, Delhi deevitasrivastava13@gmail.com

Priyanka Verma,

RCB Faridabad, priyanka.verma@rcb.res.in

Himani Saxena,

Shiv Nadar University, hs254@snu.edu.in

Praveen Kumar,

Amity University Haryana, pkumar.kas@gmail.com

Arkita Bandyopadhyay, Jawaharlal Nehru University, arkitabandyopadhyay1990@gmail.com

Animesh Kar.

RCB, Faridabad, animesh@rcb.res.in

Asmita Gupta,

CDFD, Hyderabad, asmitagupta@cdfd.org.in

Garima Yadav,

IIT Delhi, ygarima81@gmail.com

Nadeem Khan G, Manipal School of Life Sciences, Manipal, nadeemkhang.06@gmail.com

Paramita Gayen,

Indian Institute of Science Education and Research Kolkata, pg17rs069@iiserkol.ac.in

Rebecca Kristina Edwin,

Manipal School of Life Sciences, Manipal, RebeccakristinaE@drils.org

Priya Das,

CSIR-Indian Institute of Chemical Biology, Jadavpur, daspriya761@gmail.com

Kajal Rana,

RCB, Faridabad, Kajal.rana@rcb.res.in

Aswathy S Nair,

Manipal School of Life Sciences, MAHE, Manipal, snairaswathy.p@gmail.com

Gautam Chandra Sarkar,

National Institute of Immunology, New Delhi, gautam.ch@nii.ac.in



90th SBCI was well managed by various committees led by Dr. Machiavelli Singh as the Organizing Secretary, Dr. Ujjaini Dasgupta and Dr Kaustav Bandyopadhyay as Program Coordinators, Dr Nitai Debnath as Treasurer, Dr. Saif Hameed and Zeshan Fatima as Publication coordinators, Dr. Munindra Ruwali and Dr. Sumistha Das coordinated the poster sessions, and Dr.Ravi D Sharma and Dr. Atanu Banerjee were IT experts in managing the virtual platform. Additionally, every scientific session was managed by individual faculties of AIB. The conference was sponsored by Gennova Biopharmaceuticles as a Platinum partner along with Kewaunee International Group, MP Bio, Eppendorf, and SCIEX technologies as Gold partners. The conference was well covered by local print media houses like APN NEWS, Media Bulletin, FMlive, Business News, Cityair News and Media 9 etc.





90TH SBCLIN NEWS

https://www.apnnews.com/amity-university-haryana-3/

http://mediabulletins.com/education/amity-university-harvana-organized-90th-annual-meeting-of-the-society-ofbiological-chemists-sbc-india/



Amity University Haryana - FM Live

Amity University Harvana organized 90th Annual Meeting of The Society of Biological Chemists (SBC), India "Metabolism to Drug Discovery: Where Chemistry and Biology Unite" Amity University Harvana (AUH) organized the 90th annual meeting of The Society of Biological Chemists (SBC), under the theme "Metabolism to Drug Discovery: Where Chemistry and Biology Unite" in December 2021. [...]

www.fmlive.in





http://businessnewsthisweek.com/education/amity-university-harvana-organized-90th-annual-meeting-of-thesociety-of-biological-chemists-sbc-india/

BUSINESS NEWS THIS WEEK

A LEADING BUSINESS NEWS PORTAL

Amity University Haryana organized 90th Annual Meeting of The Society of Biological Chemists (SBC), India | Business News This Week

[December 29, 2021] Amity University Haryana organized 90th Annual Meeting of The Society of Biological Chemists (SBC), India Education [December 29, 2021] Digit offers one of the lowest waiting periods in health insurance Business [December 29, 2021 Ring in the New Year with Sheraton Grand Pune!

businessnewsthisweek.com

https://digitalmedia9.com/education/amity-university-haryana-organized-90th-annual-meeting-of-the-society-ofbiological-chemists-sbc-india/



Amity University Haryana organized 90th Annual Meeting of The Society of Biological Chemists (SBC), India | Digital Media 9

"Metabolism to Drug Discovery: Where Chemistry and Biology Unite" Amity University Harvana (AUH) organized the 90th annual meeting of The Society of Biological Chemists (SBC), under the theme "Metabolism to Drug Discovery: Where Chemistry and Biology Unite" in December 2021.

digitalmedia9.com

https://www.cityairnews.com/content/amity-university-haryana-organized-90th-annual-meeting-of-the-societyof-biological-chemists-sbc-india



HANDS ON TRAINING ON MATERIALS CHARACTERIZATIONS, LIPIDOMICS AND PROTEOMICS TECHNIQUES 22 - 28 AUGUST 2022 AT AUH



One weeklong "Hands-on Training on Materials Characterizations, Lipidomics and Proteomics Techniques" is being conducted by Amity University Haryana from 22nd August to 28th August, 2022 which is sponsored by the Department of Science & Technology (DST) under 'Synergistic Training program Utilizing the Scientific and Technological Infrastructure' (STUTI).

The Scheme 'Synergistic Training program Utilizing the Scientific and Technological Infrastructure' (STUTI) is intended to build human resource and its knowledge capacity through open access S&T Infrastructure across the country. As a complement to the various schemes of DST funding for expansion of R&D Infrastructure at academic institutions, STUTI scheme envisions hands-on training program, sensitization and sharing of the state-of-the-art equipment while ensuring transparent access of S&T facilities. The training is conducted on a hub-and-spoke model approach, where DST as the apex body, identifies an Institute/University that shall function as a Project Management Unit (PMU).

Under the vision and mission of the Hon'ble Founder President Dr Ashok K. Chauhan Sir and dynamic leadership of Dr Nitin Batra CEO Amity Institute of Training and Development, Amity University AUUP has been recognised as a STUTI's project hub as 'Project Management Unit' (PMU). Under this scheme, the Amity Universe would be conducting 22 PAN India training programs in various Science and Engineering Institutes and Departments of Universities. Such programs have already been successfully conducted by Amity at IIT Delhi, IIT

Roorkee, IIT Patna, BHU, Guru Nanak Dev University, IIT Rourkela, AMITY Noida, NEHU Shillong. This time, the 9th training program is being organized by Amity University Haryana as Spoke (Partner Institute) for students/post-doctoral fellows/young faculty and researchers to imparts even day hands-on training on the state-of-the-art equipment infrastructure created under DST-FIST program; used for Materials

Sciences; Lipidomics and Proteomics. Amity University Haryana, a NAAC accredited A Grade University is running two DST-FIST programs one in Biotechnology and the other in Physical Sciences and has a Central Instrumentation Research Facility.



The workshop programme is spread over for 7-day intense training aiming to equip participants with the basic knowledge and skills required to function in material characterization and lipidomics and proteomics. The participants will experience hands-on training on DLS, TGA-DSC, UV DRS, Modular Spectrophotometer and Liquid Chromatography Mass Spectrometry. The training program also includes lectures by eminent experts who are using these advanced facilities and pursuing high end research.



INTERNATIONAL VISIT BY RESEARCH TEAM



AIB'S CANCER BIOLOGY RESEARCHERS VISITED RUSSIAN ACADEMY OF SCIENCES, MOSCOW IN JULY 2022

AlB Cancer Biology Scientist Dr Amity Kumar Pandey and Research Scholar Bhupender Yadav visited Moscow, Russia under DST-RSF project from 19 - 29 July 2022.

Dr. Amit Kumar Pandey, Assistant Professor, AIB along with Mr. Bhupender Yadav, JRF visited Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry of the Russian Academy of Sciences, Moscow for scientific discussion on the ongoing international research grant "Unraveling the molecular mechanism of IncRNAs involvement in Glioblastoma (DST-RSF)". The visit was from 19th to 29th July 2022. The Russian host was Dr.Yury Rubstov, Senior Researcher Molecular Oncology Lab at Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry of the Russian Academy of Sciences 117997, Russian Federation, Moscow, GSP-7, Ulitsa Miklukho-Maklaya, 16/10

The delegation also interacted with the Prof. Alexander Gabivov, Director, Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, and discussed the possibility of student exchange program.







GLIMPSE OF KEY EVENTS ORGANISED



FDP "LITERARY TRANSLATION: CHALLENGES & STRATEGIES" BY AMITY SCHOOL OF LANGUAGES 17TH JUNE 2022



Amity School of Languages organized an online Faculty Development Programme on "Literary Translation: Challenges & Strategies" for foreign language teaching faculties on 17th June 2022 online MS Teams at Amity School of Languages, Amity University Haryana. The programme was conducted by guest speaker Dr. Md. Faizullah Khan, Assistant Professor, Centre for European & Latin American Studies, Jamia Millia Islamia, New Delhi and it was attended by 13 faculty members from Amity School of Languages, Amity University Haryana.

FACULTY DEVELOPMENT PROGRAM (FDP) ON 'RECENT ADVANCES, TRENDS AND CHALLENGES IN FIELD OF NANOTECHNOLOGY' 12- 16TH JULY 2021



An one week long faculty development program online entitled "Recent Advances, Trends and Challenges in field of Nanotechnology' has been organized by Amity Centre of Nanotechnology in association with Academic Staff College, Amity University Haryana 12 - 16 July 2021. This program has given various intellectual insights by profound and eminent scientists in the growing field of Nanotechnology. The University faculty needs to continuously update their knowledge in their chosen field of expertise as well as keep themselves updated with the 21st-century skills and technologies to deliver not only up to date knowledge but also to participate in the creation of new knowledge through engagement in Research and Development. 16 external eminent speakers from the diverse fields of Nanotechnology and around 80 participants from National and International Universities participated in the FDP.

•



ONLINE WORKSHOP ON "INCLUSIVE GROWTH AND PUBLIC PARTICIPATION IN PLANNING" IN COLLABORATION WITH: INSTITUTE OF TOWN PLANNERS, INDIA 25 – 30TH NOVEMBER 2021



Amity School of Architecture and Planning, Amity University Gurugram in collaboration with the Institute of Town Planners India (Haryana Regional Chapter) has organized a workshop on the occasion of world town planning day 2021 on the topic 'Inclusive Growth and Public Participation in Planning'. It is a special day to recognize and promote the role of planning in creating liveable communities. Planning is a very important profession for the future as cities are getting more complex with rapid urbanization. The 72nd annual world town planning day is being celebrated to acknowledge the value of inclusive planning and public participation in shaping urban communities.

INTERNATIONAL CONFERENCE "LEGAL PROSPECTS & CHALLENGES OF A GLOBALIZED & DIGITALIZED WORLD: AN INTERNATIONAL PERSPECTIVE" 26-27TH NOVEMBER 2021





Amity Law School, AUH organized its 4thInternational Conference, on 26-27th November 2021, on the theme, "Legal Prospects and Challenges of Globalisation and Digitalisation: An International Perspective" in Virtual Mode. The principal objective of the Conference was to provide an international forum for discussions and deliberations on issues associated with Globalisation and Digitalisation, especially in the Covid-19 Pandemic, wherein people across the world managed to connect with each other using digital technologies. The Conference also aimed to find solutions to the challenges posed by Globalisation and Digitalisation as it appears one of the zealous tasks for intellectuals, researchers and policy makers. The Concluding Remarks were delivered by Mr. Matthew Slone



PRINTMAKING EXHIBITION 2022 BY AMITY SCHOOL OF FINE ARTS 13TH - 20TH MAY, 2022



Amity School of Fine arts organised Printmaking exhibition 2022. Exhibitions act as the catalyst of art and ideas to the public; they represent a way of displaying and contextualizing art that makes it relevant and accessible to contemporary audiences. assist learners to use artistic and aesthetic sensibility in day-to-day life situation; enable learners to achieve a balanced growth as a social being in tune with our culture through project work. The event is coordinated by Abhijit Kumar Mohanty (Asst.Professor-II). Mr. Ishwar Nayak (Gallery In-charge)

"INNOVATION STRATEGY FOR UNIVERSITIES TO CREATE OPPORTUNITIES OF ENTREPRENEURSHIP IN MITIGATING ENVIRONMENTAL ISSUES" ON NATIONAL POLLUTION CONTROL DAY 02-12TH -2021





Amity School of Earth and Environmental Sciences (ASEES), Amity University Haryana along with Institute Innovation Council (IICs), takes the opportunity to celebrate National Pollution Control Day on 2 December 2021 by organizing an online webinar and panel discussion with eminent Keynote Speaker Dr. B K Sahu, Regional Manager & Head, NRDC - Intellectual Property and Innovation Centre, Innovation Valley, Vishakhapatnam, Gol on the "Topic: Innovation Strategy for Universities to Create Opportunities of Entrepreneurship in Mitigating Environmental Issues".



AICTE TRAINING AND LEARNING ACADEMY (ATAL) SUPPORTED FDP ON 'INDIAN HERITAGE MANAGEMENT' AT AMITY SCHOOL OF HOSPITALITY 5-9TH JULY 2021



The Amity School of Hospitality (ASH), Amity University Haryana (AUH) organized AICTE TRAINING AND LEARNING ACADEMY (ATAL) SUPPORTEDFDP on 'INDIAN HERITAGE MANAGEMENT' between 5-9 July 2021 on MS Team. The Amity School of Hospitality, Amity University Haryana organized Inaugural Session from 10:00 am to 11:00 am. The Inaugural session was graced by Prof. Padmakali Banarjee, Pro Vice chancellor, Amity University Haryana, Prof. Arunangshu Bhattacharya, Dy. Director, Amity School of Hospitality, Amity University Haryana and the Special Guests:

WORKSHOP ON "TEXTILE TESTING TECHNOLOGY" BY A MITY INSTITUTE OF DESIGN (FASHION DESIGN) 11-19TH MAY'2022



AMITY INSTITUTE OF DESIGN (Fashion Design) organized a textile testing workshop was organised from 11th-19th May'22. Students worked on the whole pallet from analogue to digital, which followed the range of the educational programme from the classic textile tool disciples of woven textiles.

WORKSHOP ON SURFACE ORNAMENTATION-INNOVATIVE TECHNIQUES OF TIE & DYE BY AMITY INSTITUTE OF DESIGN (FASHION DESIGN) 13TH-20TH MAY'22



Workshop on "Tie & dye" was conducted for the students at Amity University Haryana opened to all the courses. It was started with an introduction and demo of 10 ways of tying the fabric. On understanding the material and the various ways of tying and following up with the process of dying fabrics, students set to make a product for them.



TOURISM WEEK AS A FORERUNNER TO WORLD TOURISM DAY 2021 20-24TH SEPTEMBER 2021



The students learnt about career opportunities in aviation, travel & tourism general knowledge, travel blog writing, latest technological developments in tourism & hospitality industry, future of tourism & hospitality industry after covid-19, heritage tourism, the art of travel & tourism storytelling, career opportunities in tour guiding, role of tourism for inclusive growth & development of Indian economy etc.

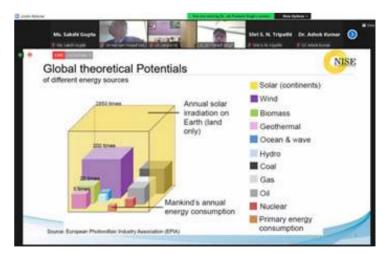
AMITY MEDICAL SCHOOL COORDINATED THE "SCLERAL CONTACT LENS WORKSHOP" 5TH APRIL 2022



The Department of Optometry and Vision sciences, AMS, AUH coordinated Scleral Contact lens workshop. This event briefed students about scleral contact lenses and the learning outcomes were based on the hands-on session followed henceforth. The 90 students participate in the workshop. Then program coordinator was Dr Gaurav Kumar Bhardwaj.

WEBINAR ON "GREEN TECHNOLOGIES FOR MITIGATION OF GLOBAL WARMING & CLIMATE CHANGE" 4TH APRIL 2022

The Department of Civil Engineering, Amity School of Engineering Department (ASET) coordinated a Webinar on "Green Technologies for mitigation of Global Warming & Climate Change" The theme was on increasing trend of average temperature of the air near Earth's surface, the threat of global warming appears to be true. Research and Scientific studies have revealed that the global atmosphere concentrations of Carbon Dioxide, (Co2), Methane (CH4) and Nitrous Oxide (N2O) have increased due to anthropogenic activities. These gases are called Green House Gases (GHGs) responsible for increasing global average temperature and causes adverse effects on ecosystem. The coordinators were Dr HRP Yadav, Professor and Head, Civil Dept. Ms Sakshi Gupta, Assistant Professor and Dr Tanvi Gupta, Assistant Professor, Department of Civil Engineering, ASET





SEMIMAR ON "TUNING THE CATALYTIC EFFICIENCY OF TRANSITION METAL COMPLEXES THROUGH PERIPHERAL LIGAND MODIFICATION" 20TH APRIL,2022



A research seminar is organized by Department of Chemistry, Biochemistry and Forensic Sciences Students learnt and understood about the Organochalcogen ligated palladium (II) complexes in catalysis. They learnt about Suzuki - Miyaura reaction. They are commonly referred to as the Suzuki cross-coupling reaction. Palladium catalyzed cross-coupling between organoboron compounds and organic halides leading to the formation of carbon-carbon bonds. The coordinator of the event was Dr.Dipti Vaya, Associate Professor, ASAS.

WEBINAR ON "IMPLEMENTATION OF TELEPHARMACY SERVICES DURING THE ONGOING COVID-19 PANDEMIC" 22ND APRIL 2022



A webinar on "Implementation of tele pharmacy services during the ongoing COVID-19 pandemic" was organised by Dr. Asim Kumar and Dr. Shrestha Sharma, Amity Institute of Pharmacy (AIP).

WEBINAR ON "MRNA VACCINE IS THE SYMBOL OF ATMANIRBHAR BHARAT" 14TH AUGUST 2021





Scientific talk on development of mRNA vaccine against COVID-19 organized by AIB & AIISH on 14-08-2021 The Speaker: was Dr. Sanjay Singh, CEO, Gennova Biopharmaceuticals Ltd



WEBINAR ON "THE MYTH AND FACTS OF BLACK FUNGUS AND COVID-19" 12TH JUNE 2021





Webinar on potentially fatal fungal infection called mucormycosis, popularly known as "black fungus organized by AIB & AIISH on 12-06-2021. The Speaker was Dr. Arunaloke Chakrabarti, President, International Society for Human and Animal Mycology

INDUSTRY CONNECT TALK ON "FROM NATURE TO PRODUCT: STAGES OF NATURE BASED DRUG DISCOVERY & DEVELOPMENT" BY DR A. VARSHNEY, PATANJALI RESEARCH INSTITUTE. 25TH MARCH 2022



A scientific talk on development of Drug Discovery and Development organized by AIB & AIISH on 25-03-2022. The Speaker was Dr. Anurag Varshney, Vice President Drug Discovery, Patanjali Research Institute



A LAUNCH ON NEW PG DIPLOMA AND SCIENTIFIC TALK ON "SKILLS: THE WINGS FOR QUALITY PROFESSIONALS FOR GLORIOUS FUTURE" 2ND MAY 2022



A Launch on New PG Diploma programme and Scientific talk on "Skills: The wings for Quality Professionals for Glorious Future" Speaker: by Mr. Anshul Saxena, Sr. Director LSSSDC, India on 2 May 2022



Edited and compiled by:



Dr Machiavelli Singh, Director Mr. Sonu Kumar, Sr. Off. Asst. Directorate of Research and Publication, Amity University Haryana, Gurugram 122413