

SCHEDULE

VENUE: RUSA CONFERENCE HALL

Subject: Physical, Chemical and Mathematical Sciences

Technical Session I DAY 1

Date: 19 March 2024

Time: 11:30 to 1:30 PM

Chairperson: Dr. G.P. Ashwinkumar

Moderator: Dr. Shahid e Murtaza

Rapporteur: Prof Rayees Ahmad Dar

S.No	Title of paper with Author's Name	Time Slot	Mode of Presentation
1	HEAT TRANSFER MECHANISM OF FALKNER-SKAN FLOW OF CARREAU NANOLIQUID INDUCED BY A WEDGE SURFACE WITH RADIATION EFFECT Dr. G.P. Ashwinkumar Department of Mathematics, Vijayanagara Sri Krishnadevaraya University, Bellary, Karnataka	11:30 – 11:50 PM	Offline
2	STUDY OF ELECTRON FLUXES IN IONOSPHERE-PLASMASPHERE COUPLING FROM WHISTLERS OBSERVED AT LOW LATITUDE GROUND STATION JAMMU L= 1.17 M. Altaf Deptt. of Physics, GDC Bemina	11:50 – 12:00 PM	Offline
3	SYNTHESIS, CHARACTERIZATION AND ANTIMICROBIAL ASSAY OF METAL COMPLEXES OF NAPHTHO[2,1-B]FURAN-2-CARBOHYDRAZIDE AND 4-HYDROXY-3-METHOXYBENZALDEHYDE SADU SURYAKANT S. Department Of Chemistry, Vijayanagara Sri Krishnadevaraya University, Ballari, Post Graduate CenterYelburga, Karnataka-583 236.	12:00 – 12:10 PM	Offline

4	<p>UNDERSTANDING & ADDRESSING STATISTICAL DISPERSION IN COUNT DATA: AN OVERVIEW AND APPROACH</p> <p>Mohammad Kafeel Wani IUST, Awantipora</p>	12:10 – 12:20 PM	Offline
5	<p>MICELLIZATION AND GELATION CHARACTERISTICS OF PLURONIC P123 AND SINGLE ESTER-BONDED CLEAVABLE CATIONIC GEMINI SURFACTANT: A POTENTIAL SYSTEM FOR SOLUBILIZATION AND RELEASE OF IBUPROFEN</p> <p>Hina Kouser Qadri and Aijaz Ahmad Dar Soft Matter Research Group, Physical Chemistry Section, Department of Chemistry, University of Kashmir, Hazratbal, Srinagar 190006, J & K, India</p>	12:20 – 12:30 PM	Offline
6	<p>ENHANCING THE PHOTO RESPONSE BY CDSE-DYE-TIO₂-BASED MULTI JUNCTION SYSTEMS FOR EFFICIENT DYE SENSITIZED SOLAR CELLS: A THEORETICAL OUTLOOK</p> <p>Taniya Manzoor and Altaf Hussain Pandith Deptt. of Chemistry, University of Kashmir</p>	12:30 – 12:40 PM	Offline
7	<p>Bifunctional zirconium phosphate loaded Greigite for electrochemical detection and removal of Heavy metal ion and Nitro compounds</p> <p>Aaliya Qureashi and Altaf Hussain Pandith Laboratory of Nanoscience and Quantum Computations, Department of Chemistry, University of Kashmir, Hazratbal, Srinagar, J&K, India</p>	12:40 – 12:50 PM	Offline
8	<p>Spectrally Resolved Photoluminescence Microscopy of White Light Emissive Nanoaggregates: Display of Multiple Colour Luminescence at Single Nanoaggregate Levels</p> <p>Mir Irfanullah Department of Chemistry, Govt. Degree College Sogam, Sogam Kupwara-193223</p>	12:50 – 01:00 PM	Offline

9	Impact of Sand and Boulder Mining on the Groundwater Levels in the Jhelum Basin Jami, Shahnawaz ¹ , Qadir, Tawfiq ¹ and Hassan, Quamrul ^{2*} ¹ M. Tech, Environmental Science & Engineering, Jamia Millia Islamia, New Delhi -110025, ² Professor, Department of Civil Engineering, Jamia Millia Islamia, New Delhi -110025	01:00 – 01:10 PM	Online
10	CLASSIFICATION AND AUGMENTED SIMULATION OF DRUG DESIGN AND PROTEIN-RECEPTORS USING DFT, GOLD AND NMR SPECTROSCOPY. KAYLA SUAREZ, Student, Biological and Biosystems Engineering, Massachusetts Institute Technology Cambridge, Ma 02139, USA	01:10 – 01:20 PM	Online
11	Exploring Zeolitic Imidazole Frameworks (ZIFs) for Efficient Photocatalytic Degradation of Textile Dye in Wastewater Treatment Fatima Zehra and Manika Khanuja Centre for Nanoscience and Nanotechnology, Jamia Millia Islamia, New Delhi, 110025, India	01:20 – 01:30 PM	Online

Technical Session II

DAY 1

Date: 19 March 2024

Time: 02:15 to 04:30 PM

Chairperson: Dr. Kowsar Majid

Moderator: Dr. Momina Nazir

Rapporteur: Dr. Bashir Ahmad

S.No	Title of paper with Author's Name	Time Slot	Mode of Presentation
1	Keynote address	02:15 – 02:45 PM	Offline

	Dr. Kowsar Majid Professor, Department of Chemistry NIT, Srinagar		
2	Impact of Noise Pollution on Human Health and Well-Being Er. Mir Aijaz Ahmad Head Department of Civil Engineering Islamic University of Science and Technology Awantipora Pulwama JK (UT)	02:45 – 03:00 PM	Offline
3	EMBARKING ON AN EXPLORATION THROUGH A THEORETICAL PERSPECTIVE OF ZRO 2 @GO, THIS RESEARCH UNVEILS THE SECRETS OF ITS OPTO-ELECTRONIC ALLURE AND PHOTOVOLTAIC POTENTIAL. BY DELVING INTO THE INTRICATE INTERPLAY OF CO-SENSITIZATION WITH SQUARAIN DYE IN DSSC. Kaniz Fatima, Zia-Ul-Haq, Firdous Ahmad Ganaie, Aaliya Qureashi, Irfan Nazir, Taniya Manzoor, Prof. Altaf Hussain Pandith*. Laboratory of Nanoscience and Quantum Computations, Department of Chemistry, University Of Kashmir, Hazratbal, Srinagar, J&K, India	03:00 – 03:10 PM	Offline
4	Automated Garbage Management System for Smart City Applications Asma Mohiuddin, Md Iqbal, Nikhil Kumar, Sahil Anjum, Sarita Nanda	03:10 – 03:20 PM	Offline
5	Green innovation: Synthesis and optimisation of nano-biofungicide from kitchen and Botanical waste through nano emulsion process. Aneesa Batool ^{1,2,3} , Sajad Majeed Zargar ^{2*} , Madhiya Manzoor ² , Momina Nazir ^{3*} , Gajendra Kumar ¹ ¹ Department of Chemistry, Bhagwant University of Ajmer, Rajasthan, India ² Department of Plant Biotechnology, SKUAST, Shalimar, Srinagar, India ³ Department of Chemistry, Govt. College for Women, M.A Road, Cluster University Srinagar, Srinagar, India	03:10 – 03:20 PM	Offline

6	<p>Green synthesis of silver nanoparticles using <i>Atropa acuminata</i> aqueous extract and its antibacterial potential</p> <p>Ifrah Manzoor ^{1,2}, Aubaid Shamus ¹, Falak Fayaz ², Athar Ul Islam ¹, Suhail Anees ², Rabia Hamid ¹</p> <p>¹. Department of nanotechnology, university of Kashmir. ². Department of Biochemistry, university of Kashmir.</p>	03:30 – 03:40 PM	Offline
7	<p>UTILISING POLYPYRROLE/POLYTHIOPHENE CO-OLIGOMERS FOR PHOTOCATALYTIC DEGRADATION OF BISPHENOL A</p> <p>AALIYAH FAROOQ A, AND UFANA RIAZ A</p> <p>Materials Research Laboratory, Department of Chemistry, Jamia Millia Islamia, New Delhi 110025 India</p>	03:40 – 03:50 PM	Online
8	<p>IMPACT OF THERMAL RADIATION ON HEAT TRANSFER CHARACTERISTICS OF HYBRID NANOFLUID FLOW ABOVE A NONLINEARLY STRETCHING SHEET</p> <p>G.P. Ashwinkumar and U. Shivakumara</p> <p>Department of Mathematics, Vijayanagara Sri Krishnadevaraya University, Bellary, Karnataka</p>	03:50 – 04:00 PM	Online
9	<p>Impact of Sand and Boulder Mining on the Groundwater Levels in the Jhelum Basin</p> <p>Jami, Shah Nawaz¹, Qadir, Tawfiq¹ and Hassan, Quamrul ^{2*}</p> <p>¹ M. Tech, Environmental Science & Engineering, Jamia Millia Islamia, New Delhi -110025, ² Professor, Department of Civil Engineering, Jamia Millia Islamia, New Delhi -110025, INDIA</p>	04:00 – 04:10 PM	Online
10	<p>Analysis of Groundwater using remote sensing and GIS technology</p> <p>Prashantkumar B. Sathvara, J. Anuradha, Sandeep Tripathi and R. Sanjeevi</p> <p>Department of Environmental Science, Nims Institute of Allied Medical Science and Technology, Nims University Rajasthan, Jaipur</p>	04:10 – 04:20 PM	Online
11	<p>Elevated Electrochemical Capacitive Performance in Asymmetric Activated Carbon/Polyaniline Supercapacitor Versus Symmetric Supercapacitor with Activated Carbon/Polyaniline Composite</p> <p>Kumari Sushma and Husain Samina</p>	04:20 – 04:30 PM	Online

	Centre for Nanoscience and Nanotechnology, Jamia Millia Islamia, New Delhi, India		
<div> <div>Technical Session I</div> <div>DAY 2</div> <div> <div>Date: 20 March 2024</div> <div>Time: 10:30 to 01:00 PM</div> </div> <div> <div>Chairperson: Dr. Ajaz Ahmad Dar</div> <div>Moderator: Dr. Parvaiz Ahmad</div> <div>Rapporteur: Dr. Saleem Farooq</div> </div> </div>			
	Title of paper with Author Name		
1	<p>Keynote address</p> <p>Prof. Ajaz Ahmad Dar Head, Department of Chemistry University of Kashmir</p>	10:30 – 11:00 AM	Offline
2	<p>Metrics based Research Evaluation in India with special reference to science</p> <p>Dr. Mohd Iqbal Bhat S. P. College Srinagar, Cluster University, Srinagar.</p>	11:00 – 11:10 AM	Offline
3	<p>Porphyrin encapsulation in iron (III) crosslinked Alginate/ Polyethyleneimine hydrogel: A Robust Electrochemical Sensor for Hydrogen Peroxide Detection, reversible pH-responsive fluorescence, Self-Healing Capability, Antibacterial and Antioxidant Applications</p> <p>Arjumundshaheen and Aijaz Ahmad Dar Department of Chemistry, University of Kashmir, Hazratbal, Srinagar-190006, Kashmir, India.</p>	11:10 – 11:20 AM	Offline

4	<p>Landslide Hazard Zonation along Srinagar to Bandipora Road, Kashmir Himalaya using geospatial techniques</p> <p>Samia Bashir¹, Tawfiq Qadir², Iftikhar Hussain Beigh³ ¹ Department of Geography, DDE, Annamalai University, Tamil Nadu-608002, India. ² Department of Civil Engineering, Jamia Millia Islamia, New Delhi-110025, India. ³ Department of Civil Engineering National Institute of Technology, Srinagar-190006, India.</p>	11:20 – 11:30 AM	Online
5	<p>Cholinium based API Ionic Liquids with Enhanced Drug Solubility: Biological evaluation and Interfacial properties</p> <p>Ab Raouf Bhat and Rajan Patel Biophysical Chemistry Laboratory, Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi-110025, India.</p>	11:30 – 11:40 AM	Online
6	<p>V₂O₅ -Polythiophene based nanomaterials as promising photocatalysts for degradation of pharmaceuticals</p> <p>Diksha Sharma and Manika Khanuja Centre for Nanoscience and Nanotechnology, Jamia Millia Islamia, New Delhi-110025, India.</p>	11:40 – 11:50 PM	Online
7	<p>Evaluation of Flood Frequency Analysis Approaches and Developing Stage-Discharge Relationships, Jhelum River, Kashmir Valley</p> <p>Qadir Tawfiq¹, Jami Shah Nawaz¹, Bashir Samia², and Hassan Quamrul¹ ¹ Department of Civil Engineering, Jamia Millia Islamia, New Delhi-110025, INDIA ² Dept. Of Geography, Anamallai University, Tamil Nadu-608002, INDIA</p>	11:50 – 12:00 PM	Online

8	<p>Convective heat transfer in MHD flow of nanofluid over nonlinearly stretching surface</p> <p>Ashwinkumar G. Poojari¹, Ranjana B.¹, Sandeep N.², C. Sulochana³</p> <p>¹ Department of Mathematics, Vijayanagara Sri Krishnadevaraya University, Bellary India, ² Department of Mathematics, Central University of Karnataka, Kalaburgi, India, ³ Department of Mathematics, Gulbarga University, Kalaburgi, India.</p>	12:00 – 12:10 PM	Online
9	<p>HEAT AND MASS TRANSFER CHARACTERISTICS OF TANGENT HYPERBOLIC NANOFLUID FLOW ACROSS A NONLINEAR STRETCHING SHEET WITH THERMAL RADIATION EFFECT.</p> <p>G.P. ASHWINKUMAR AND P. NANDA</p> <p>Department of Mathematics, Vijayanagara Sri Krishnadevaraya University, Bellary 583105, India.</p>	12:10 – 12:20 PM	Online
10	<p>Revolutionizing Bakeries with Artificial Intelligence: A Sweet Blend of Innovation</p> <p>Anam Aijaz</p> <p>Division of Food Science and Technology, Sher-e-Kashmir University of Agricultural Sciences and Technology, Shalimar, Jammu and Kashmir, India, 190025.</p>	12:20 – 12:30 PM	Offline
11	<p>“Synthesis of Biologically Active Heterocycles from Aziridines and Epoxides using Molecular Self-Assemblies Based Green Reaction Media”</p> <p>Imtiyaz Ahmad Wani and Fazila Nargis</p> <p>SCS Government Degree College Mendhar Poonch, JK</p>	12:30 – 12:40 PM	Online

12	<p>Synthesis Of WSe₂ and CuO Nanocomposite for Photodetector Applications</p> <p>TuibaMearaj and Aurangzeb Khurram Hafiz Centre for Nanoscience and Nanotechnology, Jamia Millia Islamia, New Delhi, India, 110025</p>	12:40 – 12:50 PM	Online
13	<p>Elevating Supercapacitor Electrodes: Seaweed-Modeled PANI/GNP Nanocomposites with Enhanced Electrochemical Performance via Precision Shape Engineering</p> <p>Mashqoor Alam and Samina Husain Centre for Nanoscience and Nanotechnology, Jamia Millia Islamia, New Delhi, India</p>	12:50 – 01:00 PM	Online