



**XIth International Conference on Perspectives in
Vibrational Spectroscopy (ICOPVS-2026)**

23rd - 28th February, 2026

**Mahamana Hall, Seminar Complex, Institute of Science,
Banaras Hindu University, Varanasi**

Monday, 23 February 2026 (Day 1)	
08:00 AM - 10:00 AM	Registration & Breakfast
Session 1	
10:00 AM - 11:30 AM	Inaugural ceremony Inaugural lecture Prof. Arnulf Materny Constructor University, Germany 30 Years of Femtosecond Time-Resolved Coherent Anti-Stokes Raman Scattering (fs-CARS) in the Materny/Kiefer Groups
11:30 AM 12:00 PM	High tea
Session 2	
12:00 PM - 12:30 PM	IT-01 Prof. Dennis Hore University of Victoria, Canada Nonlinear Vibrational Spectroscopy as a Structurally-Independent Probe of Interfacial Hydration
12:30 PM - 12:45 PM	OP-01 Dr. Supriya Ghosh KU Leuven, Belgium Raman Spectroscopic Study of Structural Stability in Mixed-Halide Lead Perovskites
12:45 PM - 01:00 PM	OP-02 Dr. Aarti Jaiswal IIT Kanpur, India Rapid detection of Punica granatum juice adulteration through Raman Spectroscopy
01:00 PM – 02:00 PM	Lunch
Session 3	
02:00 PM – 02:30 PM	IT-02 Dr. Itsuki Sakon Institute of Astronomy, Graduate School of Science, University of Tokyo, Japan Synthesis experiment of Cosmic Organic Dust Analogue
02:30 PM – 03:00 PM	IT-03 Prof. Hirotugu Hiramatsu National Yang Ming Chio Tung University, Taiwan Hyper-Raman spectroscopy of glycerol

03:00 PM - 03:30 PM	IT-04 Prof. Satyen Saha Department of Chemistry, Institute of Science, Banaras Hindu University, India Confocal Raman Spectroscopy of Molecular Organization in liquids: From Water and Ionic Liquids in Milk
03:30 PM - 03:45 PM	OP-03 Haruka Suzuki Institute of Astronomy, Graduate School of Science, University of Tokyo, Japan Mid-Infrared Slit Spectroscopy of Diffuse Galactic Emission with Infrared Camera on Board AKARI
03:45 PM – 04:00 PM	Tea break
Session 4	
04:00 PM – 04:30 PM	IT-05 Dr. Kishore Kumar Madapu Indira Gandhi Centre for Atomic Research (IGCAR), Tamil Nadu, India Insights into Heat Dissipation Mechanisms in Monolayer MoS ₂ via Raman Spectroscopy: Implications for Optical Properties
04:30 PM – 05:00 PM	IT-06 Prof. Koichi Iwata Gakushuin University, Tokyo, Japan Time-resolved Raman Spectroscopy Reveals How Chemical Reactions Evolve in Molecular Systems
05:00 PM - 05:15 PM	OP-04 Dr. V S Vendamani School of Physics, University of Hyderabad, Hyderabad, India Hierarchical Gold Plasmonic Nanostructures: A New Frontier in Vapor-Phase Molecular Sensing using SERS
05:15 PM – 05:30 PM	OP-05 Panchali Saha Advanced centre for treatment, research and education in cancer (ACTREC), Navi Mumbai, India Serum Profiling for Oral Disease Assessment
05:30 PM – 07:00 PM	Poster session – I (PP 01 – PP 25)
07:30 PM – 09:00 PM	Dinner

Tuesday, 24th February 2026 (Day 2)	
09:00 AM - 09:30 AM	Registration & Breakfast
Session 5	
09:30 AM - 10:00 AM	IT-07 Prof. Venugopal Rao Soma University of Hyderabad, Hyderabad SERS-based sensing devices: Lab to Field and the bottlenecks
10:00 AM – 10:30 AM	IT-08 Dr. Nandita Maiti Bhabha Atomic Research Centre, Mumbai, India Detection of environmental micropollutants and studying plasmon-induced surface reactions by Raman spectroscopy
10:30 AM - 11:00 AM	IT-09 Prof. Joydeep Chowdhury Department of Physics, Jadavpur University, Kolkata, India Langmuir–Blodgett film as SERS active substrates: Fabrications and Applications
11:00 AM – 11:30 AM	IT-10 Debraj Gangopadhyay Institute of Organic Chemistry and Biochemistry - IOCB Prague Magnetic Raman Optical Activity of Dyes in Colloidal Systems
11:30 AM - 11:45 AM	OP-06 Dr. Anushree Dutta ETH Zurich, Switzerland A Tip-Enhanced Raman Approach for Nanoscale Visualisation and Chemical Fingerprinting of Nanoplastics with Single-Particle Sensitivity
11:45 AM – 12:00 PM	OP-07 Dr. Chinju Govind M V University of Geneva, Switzerland Vibrational Snapshots of Excited-State Symmetry Breaking
12:00 PM – 01:00 PM	Lunch
01:00 PM – 05:00 PM	Excursion to Sarnath
06:00 PM - 09:30 PM	Cultural Program/Dinner St. Thomas International School Damodarapur, Varanasi

Wednesday, 25th February 2026 (Day 3)	
09:00 AM - 09:30 AM	Registration & Breakfast
Session 6	
09:30 AM - 10:00 AM	IT-11 Prof. Nisha Rani Agarwal University of Ontario Institute of Technology, Canada Surface-Enhanced Vibrational Spectroscopy for Trace-Level Biomolecular Detection and Quantification
10:00 AM - 10:30 AM	IT-12 Dr. Soumee Chakraborty IGCAR Kalpakkam, India Investigating structural and elastic anomalies in crystalline and glassy materials using Raman and Brillouin spectroscopy
10:30 AM - 10:45 AM	OP-08 Dr. Ankit Raj Dept. of Chemistry, Gakushuin University, Tokyo, Japan Quantitative spectroscopy of the excited states using tandem transient absorption and Raman
10:45 AM - 11:00 AM	OP-09 Phularida Amlraj, SRM University-AP, India SERS Unveils the Difference: Discriminating Jumbo and Non-Jumbo Bacteriophages
11:00 AM - 11:30 AM	Tea Break
Session 7	
11:30 AM - 12:00 PM	IT-13 Prof. Papia Chowdhury, Jaypee Institute of Information Technology, India Organic based Carbon Quantum Dots as Stable White Light Generator: Surface functionalization analysis by FT-IR spectroscopy
12:00 PM - 12:30 PM	IT-14 Prof. Prasanta Das Ganpat University, Gujarat, India Infrared Spectroscopic Insights into Atmospheric and Pharmaceutical Photochemistry
12:30 PM - 12:45 PM	OP-10 Janani Balasubramanian Ontario tech university, Oshawa Surface enhanced Raman detection of hemoglobin variants via targeted ligand functionalized gold/silver nanofilms
12:45 PM - 01:00 PM	OP-11 Moumita Das Institute of organic chemistry and biochemistry - IOCB Prague, Czechia Bisignate Surface-Enhanced Raman Optical Activity Probed via Analyte- Capped Colloids

01:00 PM - 02:00 PM	Lunch
Session 8	
02:00 PM - 02:30 PM	IT-15 Prof. Ingo Fischer University of Wuerzburg, Germany Stacking Is Favored over Hydrogen Bonding in Azaphenanthrene Dimers
02:30 PM - 03:00 PM	IT-16 Prof. Yoonsoo Pang Gwangju Institute of Science and Technology, Republic of Korea Intramolecular Charge Transfers Studied by Time-Resolved Raman Spectroscopy
03:00 PM – 03:15 PM	OP-12 Pallavi Bekal Visvesvaraya Technological University (VTU), , Karnataka, India Molecular Structure and Vibrational Spectra of Coumarin-3-carboxylic Acid: An Experimental and Computational Study
03:15 PM - 03:30 PM	OP-13 Lamthaka Willingson Manipur University, Manipur, India Favipiravir + Cytosine biomolecular complex: a computational and spectroscopic investigation
03:30 PM - 04:00 PM	Tea Break
Session 9	
04:00 PM - 04:30 PM	IT-17 Maria Paula Marques Molecular Physical-Chemistry R&D Unit, University of Coimbra, Portugal New Metallodrugs Against Cancer – A Vibrational Spectroscopy Approach
04:30 PM - 05:00 PM	OP-14 Dr. Chandra Shekhar Pati Tripathi Department of Physics, Banaras Hindu University, India Flexible Silver Nanoparticle-Based SERS Substrates for Efficient Detection of Environmental Pollutants
05:00 PM - 05:15 PM	OP-15 Dr. Aradhana Tripathi, Department of Physics, University of Allahabad, India Spectroscopic interrogation of the biochemical profile of maize leaves exposed to silicon dioxide nanoparticles
05:15 PM - 05:30 PM	OP-16 Dr. Debasish Das Mahanta GITAM University, Bengaluru, India Network Fragmentation at the Percolation Threshold Drives Cryoprotection in Ethylene Glycol-Water Mixtures
05:30 PM - 07:00 PM	Poster Session – II (PP 26 – PP 50)

07:30 PM - 09:00 PM	Dinner
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Thursday, 26th February 2026 (Day 4)	
08:30 AM - 09:30 AM	Registration & Breakfast
Session 10	
09:30 AM - 10:00 AM	IT-18 Prof. Goutam Dev Mukherjee IISER Kolkata, West Bengal, India Probing phonon-phonon anharmonic interactions in halide-Perovskites
10:00 AM - 10:30 AM	IT-19 Prof. Arijit K De IISER Mohali, Punjab, India Development of third- and fifth-order ultrafast broadband impulsive stimulated Raman spectroscopy
10:30 AM - 10:45 AM	OP-17 Dr. Anamika Mukhopadhyay Sri Guru Gobind Singh College, Sec 26, Chandigarh, India Investigation of Cooperative Hydrogen-Bonding Effects in Theobromine-Water Complexes: ab initio and DFT Study
10:45 AM - 11:00 AM	OP-18 Jayasree Kumar SRM University AP, Andhra Pradesh, India Ultrasensitive Detection and Differentiation of Structurally Similar Resonance-Matched Pollutants Using an AI-Based SERS Approach
11:00 AM - 11:30 AM	Tea Break
11:00 AM - 12:00 PM	IT-20 Prof. Manish Kumar Niranjana Department of Physics, IIT Hyderabad, India First-Principles Quantum Mechanical Computation of Raman and Infrared Spectra in Complex Materials
12:00 PM - 12:15 PM	OP-19 Madhuri Shah Manipur University, Manipur, India A comprehensive analysis of hydrophilic NADES containing caffeine: molecular insights using computational and experimental methods
12:15 PM - 12:30 PM	OP-20 Prof. Manjusha Balkrishna Suryawanshi Hpt Arts and Ryk Science College, Savitribai Phule Pune University, Pune, India Biheteroaryl: pyridyl-thiazole
12:30 PM - 12:45 PM	OP-21 Harsha Kumawat Bhabha Atomic Research Centre, Anushaktinagar, Mumbai, Maharashtra, India

	Spectroscopic Insights into High-Temperature Phase Transitions and Energetic Dissociation in Diglycine Perchlorate
12:45 PM - 01:00 PM	OP-22 Dr. Amarjeet Yadav Siddharth University Kapilvastu, Siddharth Nagar, U.P., India Computational Study of Interaction of DNA Bases and Base Pairs with Graphene and Quantum Dots
01:00 PM - 02:00 PM	Lunch
02:00 PM - 06:00 PM	Sightseeing and BHU Tour
07:30 PM - 09:00 PM	Dinner

Friday, 27th February 2026 (Day5)	
08:30 AM - 09:30 AM	Registration & Breakfast
Session 11	
09:30 AM - 10:00 AM	IT-21 Prof. Hirdyesh Mishra Department of Physics, Institute of Science, Banaras Hindu University, India Electronic and Vibronic Structure and Photophysics of Quinoline upon Protonation.
10:00 AM - 10:30 AM	IT-22 Dr. Katuri Venkata Prasad VIGNAN'S Foundation for Science Technology & Research, Vadlamudi, Andhra Pradesh, India Integrated Quantum Chemical, Spectroscopic and Molecular docking analysis of 21-Methoxy-2-fluorobenzophenone
10:30 AM - 10:45 AM	OP-23 Shruti Sharma Jaypee Institute of Information Technology, Noida, Uttar Pradesh, India Vibrational Spectroscopic Insights into Carbon Quantum Dots for Metal Ion Sensing: Experimental and Theoretical Studies
10:45 AM - 11:00 AM	OP-24 RIMPEE KUMARI SAH Department of Physics, National Institute of Technology Meghalaya, India Vibrational Spectroscopy and DFT Analysis of a Fluorinated Terphenyl Core Liquid Crystal
11:00 AM - 11:30 AM	Tea Break
Session 12	

11:30 AM - 12:00 PM	IT-23 Prof. Devendra Kumar Mishra Department of Physics, Institute of Science, Banaras Hindu University, India Quantum interferometry and improved precision of Two-Photon Absorption and Coherent Anti-Stokes Raman Spectroscopy
12:00 PM - 12:30 PM	IT-24 Prof. Amit Pathak Department of Physics, Institute of Science, Banaras Hindu University, India Understanding Interstellar PAHs: A Theoretical Approach
12:30 PM - 12:45 PM	OP-25 Prof. Saurabh Srivastava Rajkiya Engineering College, Ambedkar Nagar, UP, India Graphitic carbon nitride - reduced graphene oxide nanohybrid based highly sensitive and label free biosensor for lung cancer biomarker detection
12:45 PM - 01:00 PM	OP-26 Dr. Veer Singh Manipal University Jaipur, India Green Synthesis of Chitosan Based MnO ₂ Nanosorbent for Sustainable Removal of Cd (II) Contamination from Water
01:00 PM - 02:00 PM	Lunch
Session 13	
02:00 PM – 02:30 PM	IT-25 Prof. Amritanshu Pandey Department of Electronics Engineering, IIT (BHU) Varanasi Advanced 2D Material and Hybrid Nanostructure–Based Photodetectors for Broadband Optoelectronic Applications
02:30 PM - 03:00 PM	IT-26 Prof. S. K. Srivastava Department of Physics, Institute of Science, Banaras Hindu University, India Turn-On/Turn-Off Fluorescent Nanobiosensor for Ultra-Sensitive Detection of Target Analytes
03:00 PM – 03:15 PM	OP-27 Prof. Shiju Abraham St. Pius X College Rajapuram (Kannur University-Kerala) Real-Time Nanoscale and Macroscale Analysis of T4 Bacteriophage-Induced Disruption in E. coli Biofilms Using Correlative AFM–OCT Imaging
03:15 PM – 03:30 PM	OP-28 Sk Firoj Haque Jadavpur University, Kolkata, WB, India All liquid White Light emitting diode and its solid-state counterpart from the photophysical and anionic responses of 2-hydroxy-5-methylbenzaldehyde molecule
03:30 PM – 04:00 PM	Tea Break
Session 14	
04:00 PM - 04:30 PM	IT-27 Dr. Archana Tiwari

	Department of Physics, Institute of Science, Banaras Hindu University, India Enhanced SERS Detection via Morphology-Controlled Ag Nanoparticles and CQD-Metal Nanocomposites
04:30 PM - 05:00 PM	IT-28 Prof. Chandan Upadhyay School of Materials Science and Technology, IIT-BHU, Varanasi Role of Chemical pressure and magnetic disorders in Rare-earth Spin-Ices.
05:00 PM - 05:15 PM	OP-29 Sajal Rai Department of Physics, Institute of Science, Banaras Hindu University, India Defect Driven Ultrafast and Nonlinear Study of MoS ₂ Nanocracks
05:15 PM - 05:30 PM	OP-30 Ashish Jyoti Borah Department of Physics, Institute of Science, Banaras Hindu University, India Probing Anharmonic Phonon Decay in α -Mo ₂ C via Temperature-Dependent Raman Spectroscopy
05:30 PM – 07:30 PM	Ganga Arti and boat ride
07:30 PM – 09:00 PM	Dinner

Saturday, 28th February 2026 (Day 6)

09:00 AM - 09:30 AM	Breakfast
Session 15	
09:30 AM - 10:00 AM	OP-31 Prof. Anchal Srivastava Department of Physics, Institute of Science, Banaras Hindu University, India Spectroscopy At Atomic limit: exploring 2-Dimensional Materials
10:00 AM - 10:30 AM	IT-29 Prof. Akhilesh Kumar Singh School of Materials Science and Technology, IIT-BHU, Varanasi Spectroscopic Insights for Development of Advanced Sensors and Energy Materials
10:30 AM - 10:45 AM	OP-32 Phularida Amlraj SRM University, Andra Pradesh, India SERS Unveils the Difference: Discriminating Jumbo and Non-Jumbo Bacteriophages
10:45 AM - 11:00 AM	OP-33 Issa Awawu Yetunde SRM University Andra Pradesh, Neerukonda, India Detection of Erythrosin B From Food Sample Using A Flexible SERS Substrate
11:00 AM - 11:30 AM	Tea Break
Session 16	

11:30 AM - 01:30 PM	Valedictory & Award Ceremony
01:30 PM – 02:30 PM	Lunch

Poster Presentations

Monday, 23 February 2026 (Day 1)

05:30 PM – 07:00 PM	Poster session – I (PP 01 – PP 25)
PP-01	Anuj Sharma Department of Chemistry, IIT Delhi, New Delhi, Investigation of Solute Solvation within Renewable Solvents via Pyrene Fluorescence
PP-02	Deepika Department of Chemistry, IIT Delhi, New Delhi Water-in-Fluorous Microemulsion Formation: A New Media for (Bio)molecular Solvation
PP-03	Tuhina Parvin Sultana University of Hyderabad, Hyderabad, Telangana Femtosecond laser ablation of TiS ₂ nanoflakes and application in microplastics SERS-based sensing platform
PP-04	Vetriveljanakiraman S SRM University, Andhra Pradesh High-Performance SERS Substrates for Carcinogenic Dye Detection Based on Popcorn-Shaped Silver Nanoparticles
PP-05	MOUNIKA RENDUCHINTALA SRMAP, Amaravati, Andhra Pradesh Vanadium Pentoxide Microflowers as Non-Plasmonic Substrates for Enhanced Raman Detection
PP-06	Shaik Sharmila SRM University, Andhra Pradesh Neerukonda, Mangalagiri, Andhra Pradesh Silver Microflower-Decorated Aluminum Substrates for SERS-Based Antibiotic Detection
PP-07	Abhuri Jahnavi SRM University, Andhra Pradesh Ultrasensitive Fungicide Detection in Water Using a 3D-Printed SERS Platform
PP-08	BHAVYA CHAITANYA DARAPANENI SRM University, Andhra Pradesh.

	Next-Generation Food Safety: AgNP-Based SERS for the Detection of Curcumin and Synthetic Adulterants in Turmeric
PP-09	Trisita Das Jadavpur University, Kolkata, West Bengal, India Investigating the morphological and structural changes of Albumin protein in presence of different molar fraction of Ethanol from Multispectroscopic studies and Small angle X-ray study(SAXS)
PP-10	Sadia Fatima Haroon SRM University, Andhra Pradesh Rapid and sensitive detection of microplastics in personal care products using surface-enhanced Raman spectroscopy
PP-11	Issa Awawu Yetunde SRM University, Andhra Pradesh Detection Of Erythrosin B From Food Samples Using A Flexible SERS Substrate
PP-12	APARNA TIWARI Department of Physics, Science Faculty, University of Allahabad, Prayagraj Tailored Silver Nanoparticles Capped with Malonic Acid for Ultrasensitive Detection of Mo (VI) Ions Using Surface Enhanced Raman Spectroscopy
PP-13	Shanwli Mallick Jadavpur University, Kolkata, India Machine learning and first-principle DFT approaches for predicting band gaps of Janus MXenes
PP-14	Priyabrata Maity Jadavpur University, Kolkata, India SERS activity and photocatalytic performance of rare-earth doped V ₂ O ₅
PP-15	Rohan Chaudhary Chaudhary Charan Singh University, Meerut, Uttar Pradesh High-Sensitivity Detection and Differentiation of Neonicotinoid Pesticides Using a Stable Pegylated Gold Nanoparticle SERS Platform
PP-16	Ritu Sarkar Jadavpur University, Kolkata, India Development of Graphene Oxide Langmuir–Blodgett Films as Highly Efficient SERS Substrates for Ultrasensitive Trace-Level Detection of Methylene Blue in fish scales.
PP-17	shruti sharma university of allahabad, Prayagraj, Uttar Pradesh Potential of the Confocal Micro-Raman Spectroscopy for the Non-destructive Biochemical Profiling of the Pulses
PP-18	Sayanee Das Homi Bhabha National Institute, Anushaktinagar, Mumbai, Maharashtra, India Nuclear Quantum Effect (NQE) on the Structure of H ₂ O and D ₂ O at Ambient Temperature as Observed by Imaginary Component of Susceptibility Spectra in 1- 10 THz Regions
PP-19	Sidhanta Sahu IISER, KOLKATA, Mohanpur, West Bengal, India

	Ultrafast Dynamics of Spin–Orbit Entangled Excitons Coupled to Spin Ordering in the quasi-two-dimensional Quantum Magnet NiPS ₃
PP-20	Vana Phalguna Krishna Das Indian Institute of Science Education and Research Kolkata, West Bengal, India Terahertz Time-Domain Spectroscopy and Density Functional Theory Analysis of Low-Frequency Vibrational Modes of a Benzoxazolium-Coumarin Donor- π -Acceptor Chromophore
PP-21	Raj Manas Banaras Hindu University, Varanasi, Uttar Pradesh A Quantum Chemical Study of Pyrrole Derivatives and Their Reactivity in the Cold ISM
PP-22	Manikandan Arignar Anna Government Arts College, Tamilnadu, India. Vibrational and Electronic Spectroscopic Signatures of triazole derivative Correlated with Quantum Chemical and Pharmacological Studies
PP-23	Ramandeep Kaur IISER Mohali, Nagar Mohali, Punjab. Probing mode-specific energy relaxation during polar solvation using broadband time-resolved impulsive stimulated Raman spectroscopy
PP-24	Shivani Mishra Department of Physics, Institute of Science, Banaras Hindu University Exploring Formation Routes and Rotational Signatures of Cyano Derivatives of Oxygenated PAHs
PP-25	TBA

Wednesday, 25th February 2026 (Day 3)

05:30 PM – 07:00 PM	Poster session – II (PP 26 – PP 50)
PP-26	Lydia Federica Gervasini Politecnico di Milano/ Ontario tech university piazza leonardo da vinci, 32, Milan A microfluidic–SERS platform for real-time monitoring and quantification of antiepileptic drugs
PP-27	Ankita Kothari Malaviya National Institute of Technology Jaipur, JLN Marg Jaipur, Rajasthan Vibrational spectroscopic signature of cold solid matrix-induced changes in the potential energy surface of weakly bound complexes
PP-28	Sourav Rana IISER Kolkata, Mohanpur, West Bengal, India Terahertz Spectroscopy of SnSe Nanosheets in Polymer Composites
PP-29	Janani Balasubramanian

	Ontario Tech University, Oshawa Graphene enhanced infrared absorption spectroscopy for cannabidiol rapid and sensitive detection in complex commercial drinks
PP-30	Pukhrambam Suraj Singh Manipur University, Canchipur, Imphal DFT-Assisted Vibrational Analysis of Quercetin Solvated in a Natural Deep Eutectic Solvent comprising Menthol and Thymol
PP-31	Santosh Khoirom Manipur University, Canchipur, Manipur Vibrational analysis of Acetone and L-Tryptophan liquid mixture using DFT method and Raman technique
PP-32	Aishwary Awasthi Department of Physics, University of Allahabad Investigating Vanillic Acid-Silver Clusters Interactions using Density Functional Theory and Surface Enhanced Raman Spectroscopy
PP-33	Darshan Chikkanayakanahalli Mukunda Indian Institute of Technology Dharwad Non-Invasive Salivary Raman Spectroscopy for Oral Squamous Cell Carcinoma Screening
PP-34	ABHI SARIKA BHARTI Dr. Shakuntala Misra National Rehabilitation University, Lucknow Comparative Elemental and Molecular Profiling of Brinjal (Solanum melongena L.) Varieties Using ICP-MS and FTIR Spectroscopy
PP-35	Shipra Tripathi Dr. Shakuntala Misra National Rehabilitation University, Lucknow Fine Structure Study of 1-8, 2-6 and 3-4 Bands of $B^3 \sum_u^-(0_u^+) - X^3 \sum_g^-(0_g^+)$ Transition of the 78Se2 Molecule
PP-36	Quinn Eng Ontario Tech University, Oshawa, ON Potential for Raman spectroscopy in rapid and cost-effective in-vivo biodosimetry
PP-37	Anjali singh Department of physics , Siddharth University Kapilvastu, Siddharth nagar U.P. INDIA DNA BASES RADICALS INTERACTION WITH POLYCYCLIC AROMATIC HYDROCARBONS AS FINITE SIZE MODEL OF GRAPHENE : A DFT STUDY
PP-38	Anisha Bandyopadhyay Homi Bhabha National Institute, Anushaktinagar, Mumbai Distinct Hydration-Shell Water Structure of Chloromethanes vs. Alkyl Hydrophobes as Observed by Raman Spectroscopy and DFT Calculation
PP-39	Rina Nayak GITAM University, Bengaluru How solvation structure defines the cryoprotection efficiency of ethylene glycol
PP-40	Pooja Sonkar School of Materials Science and Technology, Indian Institute of Technology (BHU), Varanasi, India

	Lattice Dynamics and Raman-Active phonons in Oxide Perovskites from First Principles
PP-41	RANJAN KUMAR Department of Physics Institute of Science BHU Structural, Optical and Luminescence Properties of Sm ³⁺ /Ni ²⁺ Co-Doped CaTiO ₃ Perovskite phosphor
PP-42	Sumit Modanwal Banaras Hindu University Enhanced n-UV-Converted Blue Downshifting Emission and Broadband Quantum Cutting in Self-Activated LaNbO ₄ Phosphors via the Dual Role of Bi ³⁺ as a Sensitiser and Activator Ion
PP-43	Luis Alberto Esteves Batista de Carvalho University of Coimbra, Coimbra, Portugal Unveiling Molecular Mechanisms in TNBC: Vibrational Spectroscopy as a Tool for Chemotherapeutic Strategies
PP-44	Sadhana Yadav School of Materials Science and Technology, IIT-BHU Multimode responsive luminescence of Er ³⁺ activated defect pyrochlore phosphor for photonic and sensing applications TBA
PP-45	TBA
PP-46	TBA
PP-47	TBA
PP-48	TBA
PP-49	TBA
PP-50	TBA