

List of Posters

Poster No.	Full Name	Title of the Poster
1	Abhay Srivastava	Unique Synergistic Molecular Recognition Induces Exclusive Cupric Ion-Specific Gel-to-Sol Transition in G-quadruplex Hydrogel
2	Aditi Saraswat	Stabilizing ordered metal-vacancies in Dion-Jacobson type rare hybrid two-dimensional Bi(III)-iodide perovskites
3	Ajay Partap Singh Rana	Thermal transport and Spin-phonon interaction in magnetic Janus Cr ₂ X ₃ S ₃ (X = Br, I) monolayers
4	Akshay V V	Enhanced Performance of Sb ₂ Se ₃ Thin Film with Antisolvent Treatment
5	Akshita Sharma	Na ₃ V ₂ (PO ₄) ₃ /C in symmetric cells
6	Amarjith V Dev	Tailoring Emission Properties of Sb-based Metal Halide Hybrids for Optoelectronic and Security Applications through Crystal Engineering
7	Anagha Vinayan	Cell Failure Mechanism in LPSCl: Influence of Microstructure on Lithium Insertion
8	Anantha Sunil Maligi	Fabrication of Bi ₂ S ₃ sensitized solar cell by SILAR method
9	Anashmita Ghosh	Switchable Bulk Photovoltaic Effect in Intrinsically Ferroelectric 3D All-Inorganic CsPbBr ₃ Perovskite Nanocrystals
10	Aritra Naha	Why tertiary amide? Local - β turns induced by secondary amides destabilize collagen triple helical assembly
11	Arya K	Impedance Spectroscopy Unveils Interfacial Dynamics in NiO-Modified Electrodes for Glucose Detection
12	B. N. Swetha	Enhanced Solid-State Lighting Performance of AuNPs-Embedded Sm ³⁺ -Doped Sodium Borotellurite Glasses
13	Bhagyalakshmi K	Threshold and memory resistive switching in CeO ₂ based memristor: Control via crystallinity and current compliances
14	Bharath B	Exploring the chemistry of phenylene diammonium iodobismuthates based on the substitution of functional groups as stabilizer for 3D perovskites
15	Bhaskar Kakoty	Addressing Challenges in Aqueous Zinc ion battery: Enhancing Performance through Electrolyte Engineering and Artificial SEI Formation.
16	Bhupesh Yadav	A Stretchable Neuromorphic Device Mimicking Pain-related Response
17	Bidhan Kumbhakar	A Dithiophenedione-Based Covalent Organic Frameworks for Supercapacitive Energy Storage
18	Bikash Isaac	Electrosynthesis of Carbon Nitride Quantum Dots and exploring its electrocatalytic activity for Oxygen Reduction Reaction
19	Biplab Patra	Stabilizing Multi-Electron NASICON-Na _{1.5} V _{0.5} Nb _{1.5} (PO ₄) ₃ Anode via Structural Modulation for Long-Life Sodium-Ion Batteries

List of Posters

20	Debendra Meher	Development of Machine Learning Potential for Glassy B ₂ O ₃ at high pressure
21	Debmalya Mukhopadhyay	Flexible Near-Infrared Plasmon-Polaritons and Electronic Transport in Scandium Nitride
22	Debranjani Hati	Color-Tunable Delayed Luminescence from Chalcogen Core-Substituted Pyromellitic Diimides (PmDIs)
23	Deep Lata Singh	Bi-based coordination polymer derived materials for supercapacitor and N ₂ reduction reaction
24	Deepa K.G.	Amorphous WO ₃ thin film as a switchable and energy-saving electrochromic smart window
25	Devendra Khadka	Green Synthesis of Iron Oxide Nanoparticles: Characterization and Photocatalytic Degradation of Methylene Blue
26	Devesh Chandra Binwal	Tailoring Antiferromagnetic Exchange Interaction and Optical Absorption by Alloying Cl and Br in 1-D Halide Double Perovskites (CH ₃ NH ₃) ₂ NaMoCl(6-x)Br _x
27	Dhirendra Jha	V ₂ O ₅ .nH ₂ O/g-C ₃ N ₄ nano composites for super capacitor applications: Synthesis and characterizations
28	Dhrmendra Sablaniya	UHMWPE-based injection molded acetabular liner: processing and product development
29	Durgesh Kumar Sharma	Theoretical Investigation of Two Dimensional Monolayer TaN: An ab-initio Study
30	A Guhananthan	Engineering the morphology of ZnCo ₂ O ₄ through different synthetic approaches for enhanced OER performance
31	Ivy Maria	Evidence of Lone Pair Crafted Emphasis in the Ruddlesden–Popper Halide Perovskite Cs ₂ PbI ₂ Cl ₂
32	Jahanvi Ralhan	Control over self-assembly pathway in azobenzene tethered peptide bolaamphiphiles
33	Jisvin Sam	Superconductivity and CDW phases in Ca intercalated bi-Layer silicene
34	K M Rajashekhar Vaibhava	Study of Van der Waals dispersion forces for layered MXenes in the framework of DFT
35	Kaveramma A B	Managing Film Crystallization via Low Toxic Antisolvents: Stabilizing Ag ₃ BiI ₆ Perovskite like Solar cells under Ambient Conditions
36	Kavya Vinod	Revealing the structure and exciton coupling in a nanocrystalline eumelanin precursor
37	Keerthikumara V	Structural, DFT, and nonlinear optical properties of a novel organic thiazole derivative for optoelectronics applications: A combined experimental and theoretical approach
38	Keshav Kumar Harish	Experimental and theoretical Investigations of Imidazole Centred Cu ²⁺ Ion Sensor for Zebrafish Bioimaging Application
39	Keshavkrishna Mondal	Crowding induced secondary nucleation in supramolecular polymerization

List of Posters

40	Khokan Manna	Revisiting Water Oxidation Reaction with Micro Bubble Lithography (MBL) Printed ZIF-67 MOF Electrocatalysts
41	Kiran Mayawad	Stimuli-Responsive Delivery of Ions through Layered Materials-Based Triangular Nanofluidic Device
42	Konica Roy	Exploring the role of non-metal charge carriers in aqueous ion batteries: Opportunities and Challenges
43	Madhab Gautam	Advancement of Plant-Based Admixtures to Prolong the Lifespan of Reinforced Metals in Simulated Concrete Pore Solution
44	Manjunatha S	Room Temperature Humidity Sensing Behaviour of Polypyrrole - Neodymium Oxide Composite
45	Manmayuri Sarma	Colloidal Ag(InGa)S ₂ Nanocrystals for Excitonic Emission.
46	Manpreet Kaur	Computational characterisation of dewetted labyrinthine structures and application to Neuromorphic devices
47	Mayank Sharma	Computational study of oxide-based spinel material for the application as cathode in Energy storage
48	Mohammed Arkham Belgami	Enhanced HER Activity of Porous NiCoP through the Aid of External Magnetic Field
49	Momin Ahamed	Bimetallic Ni-Pd Catalysts for Efficient H ₂ O ₂ Production
50	Mukhesh K Ganesha	Redox potential based self powered electrochromic devices
51	Mukul Nawani	Nitrogen shifts gears for NiOOH formation in Carbon support for efficient Methanol Oxidation Reaction
52	Muskan	Missed-out features of superlattice formation and vastly increased mesophase range of liquid-like layers from in-situ prepared gold nanoparticles with liquid crystalline ligands
53	Nandini Saha	Breaching the toxicity barrier: highly hydrophobic polymeric nanoaggregates tackle drug-resistant bacterial infection
54	Parna Roy	Enhanced Single Photon Emission at High Excitation Fluence with Engineered II-VI Nanocrystals
55	Pawan Kumar Mishra	High-Performance Porous Activated Carbon Derived from Acacia catechu Bark as Nanoarchitectonics Material for Supercapacitor Applications
56	Poulomi Mukherjee	Origin of the pronounced temperature dependence of Mn emission from Mn doped lead halide perovskite nanocrystals
57	Prashanth S. Adarakatti	Additively Manufactured Electrodes as Electrochemical Sensors: Advancements and Applications
58	Prasun Boyal	Robust antiferromagnetic ordering in pressure induced NaOsO ₃
59	Priya Vimal	Reusable polymer anchored palladium catalyst in Suzuki-Miyaura cross coupling reaction
60	Ravi Shankar P N	Asymmetrical diamond spin-lattice causing ferroelectricity, reduced magnetic moments, and 1/3-magnetization plateau in the polar magnet LiFeV ₂ O ₇

List of Posters

61	Ravishankar T N	Eco-Friendly Synthesis of NiO and Ag/NiO Nanoparticles Using Cocos Nucifera Water as Both Fuel and Solvent in the Solution Combustion Method: Applications in Photocatalytic Hydrogen Production, Dye Degradation and Antibacterial Properties
62	Rohit Attri	Emergence of in materia Intelligence in Energy-efficient Neuromorphic Devices realized using Self-formed Hierarchical Structures
63	Rohit Kumar Rohj	Ultralow thermal conductivity approaching the disordered limit in crystalline TiCuZrSe ₃
64	Sahana R	Bifunctional CuCo(OH) ₂ /CNT/MoS ₂ Electrocatalyst for Simultaneous Hydrogen and Oxygen Evolution: From Pure Water to Seawater Splitting.
65	Sai Rachana Pramatha	Growth on the surface and growth from the surface: secondary nucleation guided non-covalent synthesis of dendritic homochiral superstructures
66	Sakshi Verma	Metavalent bonding across interfaces: A first-principles study
67	Sambit Pradhan	Azobenzene-Tagged Photo-peptides Exhibiting Excellent Selectivity and Light-Induced Cytotoxicity in MCF-7 Cells over HeLa and A549
68	Samina Dastagir Mulla	Robust On-Chip Transport of THz Waves for 6G Communication.
69	Santhosh Kumar A S	Enhanced Photocatalytic activity of Cerium oxide nanoparticles anchored on Reduced graphene oxide
70	Sathish Reddy	Boosting Neural Interfaces and Sensing: Bio-material (PDA)@CNTs-PEDOT Hybrid Electrodes
71	Savita	Nanomaterials for the application in light emitting diodes (LEDs)
72	Sayandeep Guin	Li-excess Disordered Rocksalt Oxides & Oxyfluorides as next-generation High-energy Density cathode material for Li-ion batteries
73	Sayan Paul	Tuning optical phonons: An approach to achieve ultralow lattice thermal conductivity
74	Sherin G R	Development of Antioxidant Nanozymes with Antiplatelet Activity for Prevention of Thrombosis
75	Shilpa M P	Robust nonlinear optical response and enhanced power limiting action of delaminated Ti ₃ C ₂ Mxene
76	Shivanna M	Unlocking the Potential of Water Splitting: FeMn-LDH/MoS ₂ Composite with Enhanced Activity and Durability
77	Shyamala R.	Electrochemical studies on SnO ₂ -alpha Fe ₂ O ₃ nanocomposite used as an electrode material for rechargeable lithium-ion batteries
78	Shreyasri Sain	Enzyme -Induced Liquid -to-Solid Phase Transition of Mitochondria-Targeted AIEgen in Cancer Theranostics

List of Posters

79	Simran	Energy transfer driven colour tunability of Tb ³⁺ -Eu ³⁺ doped KLa(WO ₄) ₂ phosphor for smart led application.
80	Sivakumar G	Metal-to-Metal Charge Transfer and s-p Emissions in Bi ³⁺ Activated Ca ₂ YM ₂ Ga ₃ O ₁₂ (M = Ti, Zr): Insights and Applications
81	Smhrutisikha Biswal	Role of Jahn-Teller effect induced local polarization in Sr ₂ Co ₂ O ₅ : Raman and first-principles investigations
82	Sonali Seth	Biopolymer adsorbent for uranium removal from water
83	Souvik Banerjee	Fishtail effect and complex vortex states in the high critical field superconductors RMo ₆ S ₈ (R = Pb, Sn)
84	Souvik Mandal	Visible Light-Driven CO ₂ Conversion to Solar Fuels Based on Metallo-Supramolecular Polymer and Topological Insulator Nano-Heterostructures
85	Sowmya Panja	Vibrationally Assisted Delayed Fluorescence (VADF): The Key to Enhanced Photoluminescence Quantum Yield
86	Sreelakshmi P	Ti ₃ C ₂ T _x MXene Bonded Perylene Diimide as a Robust Charge Host for Seawater Electrolytes
87	Srinivasan	Investigation on super capacitor performance of BaTiO ₃ and SrTiO ₃ perovskite
88	Subha Biswas	Electronic Strong Coupling Modifies The Ground-State Intermolecular Interactions in Self-assembled Chlorin Molecules
89	Subham Das	Harnessing Vibrationally Assisted Delayed Fluorescence For Enhanced Energy Transfer in Mn doped CsPbBr ₃ Nanocrystals
90	Subhankar Maity	Osseointegrating antimicrobial coating for infection free orthopedic implants
91	Suhas Adiga	Decoding Superconductors: Machine Learning Models to Predict Critical Temperature
92	Sujith S	Strategic synthesis of bimetallic Cu-Mo oxide catalyst for production of propylene carbonate from propylene glycol and CO ₂ : Experimental and DFT studies
93	Supritha K M	Cu-MOFs/GO composite based electrochemical sensor for simultaneous determination of xanthine hypoxanthine and caffeine.
94	Suresh Chandra Joshi	Janus faced influence of oxygen vacancies in ultrathin films of high entropy oxide
95	Susanta Manna	Misfit Layered Nanotubes: Influence of Charge Transfer on Superconductivity and Charge Density Waves
96	Suvarna Sujilkumar	Single-molecule detection of a terrylenediimide-based near-infrared emitter
97	Swarnamayee Behera	Robust Superhydrophobic Dual-layer Membrane for Direct Contact Membrane Distillation
98	Tamagna Mandal	Dual Photocatalytic Hydroxylation and Thiocyanation Based on a Donor-Acceptor Covalent Organic Framework

99	Tanuja Joshi	Orientational Dependence of Spin Crossover Properties
100	Telna Thomas	Synthesis and differential electrochemical mass spectrometric investigation of high voltage lithium-ion cathodes
101	Ujjwal Vidyarthi	Pd nanoparticles embedded on Co ₃ O ₄ and B/N co-doped carbon nanosheets as an efficient bifunctional electrocatalyst for Zinc-air Battery
102	Vaibhav Sharma	The Effect of Ti-doping on the structure and Cycle life of High Voltage cathode material LiNi _{0.5} Mn _{1.5} O ₄
103	Vaishali Taneja	Nanostructured Ferecrystal Intergrowths with TaSe ₂ Unveiled High Thermoelectric Performance in n-Type SnSe
104	Veeramani Rajendran	Unveiling the Local Atomic Structure of Cr-Implanted InGaO ₃ Superlattices to Correlate with Infrared Emission Luminescence
105	Vikash Kushwaha	Ligand-Directed Synthesis of a Self-Organized Chloro-Bridged Cubic Pd(II) Cage Showing Selective Encapsulation of Phenols
106	Vinay G	Construction of Y-CuMoO ₄ @ S-g-C ₃ N ₄ Heterojunction Nanocomposites for an efficient catalytic degradation of organic pollutants
107	Vinayak Pattar	Thermo-Chromatic Evolution and Surface Plasmon Resonance Tuning of Silver Nanoparticles in Glass Matrix
108	Vineet Mishra	Influence of Lewis Acidity and Metal-Dependent N ₂ Adsorption Affinities on Electrochemical N ₂ Reduction to NH ₃
109	Vishwajith N S	Hybrid Halide Perovskites based on Divalent and Tetravalent Tin Metal Ions: Thermal Phase Transition, Light Absorption and Emission
110	Yugen Atul Kulkarni	Sustainable Dye Degradation Using Hydrothermally Synthesized Cuprous Oxide
111	Namitha N	Figure of Merit Optimization for THz Sensors
112	Manaranjan Sahu	Off-On Pathway Complexity in Self-Assembly of Cadmium Cholate Hydrogel with Topological Evolution Triggered by Secondary Nucleation