

Conference Schedule

Conference Day 1 — 13th July 2026 (Monday)

Time	TTJ Hall	Hall 1	AMM Hall
08:00–09:20	Registration		
09:30–10:45	Inauguration Ceremony		
10:45–11:15	Tea Break		
Chairperson: Prof. V. Thangadurai			
11:15–12:00	Plenary Lecture: Prof. Lee Johnson		
	Chairperson: Prof. V. Thangadurai	Chairperson: Prof. Indrapal Singh	Chairperson: Prof. Bhyrappa
12:00–12:35	Dr. Richard Baker [K]	Dr. Manjusha V. Shelke [K]	Dr. Premkumar Senguttuvan [K]
12:35–13:10	Dr. M. Sathish [K]	Dr. Sarada B. V. [K]	Prof. S. K. Martha [K]
13:10–14:30	Lunch Break		
	Chairperson: Prof. Ramesh Gardas	Chairperson: Dr. Hema Chandra	Chairperson: Prof. Arnab Rit
14:30–15:05	Prof. Daniel Rettenwander [K]	Dr. Nikhil Tambe [K]	Prof. Tai-Feng Hung [K]
15:05–15:40	Prof. She-Huang Wu [K]	Prof. Harihara [K]	Dr. Rajesh Ganesan [K]
15:40–16:15	Dr. Vanchiappan Aravindan [K]		Prof. Yves Lansac [K]
16:15–16:45	Tea Break		
	Chairperson: Prof. Kothandaraman	Chairperson: Dr. Palaniselvam	Chairperson: Prof. Jeganmohan
16:45–17:20	Prof. Yun Hee Jang [K]	Dr. K. Krishnamoorthy [K]	Prof. Mary Gladis J [K]
17:20–17:40	Prof. Karvembu [I]	Dr. Raveendra Gundlapalli [I]	Dr. Ramesh Kumar Singh [I]
17:40–18:00	Dr. Neena S. John [I]	Dr. Ashutosh Singh [I]	Dr. Katchala Nanaji [I]
18:00–19:00	Poster Session (A-E)- Judges: Dr. Ashutosh Singh, Dr. Katchala Nanaji, Dr. Mary Gladis, Dr. Hemavathi, Dr. Sreekuttan		
19:00 onwards	Dinner		

Conference Day 2 — 14th July 2026 (Tuesday)

Time	TTJ Hall	Hall 1	AMM Hall
<i>Chairperson: Dr. Yi-Shiuan Wu</i>			
09:00–09:20	Sponsor Talk		
09:20–10:05	Plenary Lecture: Prof. V. Thangadurai		
	<i>Chairperson: Dr. Yi-Shiuan Wu</i>		<i>Chairperson: Prof. Mary Gladis J</i>
10:05–10:40	Prof. Graham Newton [K]		Prof. Tharamani C. Nagaiah [K]
10:40–11:10	Tea Break		
	<i>Chairperson: Dr. A. K. Sahu</i>	<i>Chairperson: Prof. Tai-Feng Hung</i>	<i>Chairperson: Prof. Mary Gladis J</i>
11:10–11:45	Prof. Ramesh T. Subramaniam [K]	Prof. C. Retna Raj [K]	Prof. Sukhendu Mandal [K]
11:45–12:20	Prof. Chun-Chen Yang [K]	Dr. Vaibhav Kulshrestha [K]	Prof. Rajan Jose [K]
12:20–14:00	Lunch Break		
	<i>Chairperson: Prof. G. Sekar</i>	<i>Chairperson: Prof. Rajan Jose</i>	<i>Chairperson: Dr. Soumen Ghosh</i>

Time	TTJ Hall	Hall 1	AMM Hall
14:00–15:45	Dr. Loganathan [K] (14:00–14:35) Dr. Yi-Shiuan Wu [K] (14:35–15:10) Dr. A. K. Sahu [K] (15:10–15:45)	Dr. Santanu Das [K] (14:00–14:35) Dr. Srabanti Ghosh [I] (14:35–14:55) Dr. C. R. Mariappan [I] (14:55–15:15) Dr. Narendra Kurra [I] (15:15–15:35)	Prof. Tariq Sajjad [K] (14:00–14:35) Prof. P. Biji [I] (14:35–14:55) Dr. Muthukrishnan [I] (14:55–15:15) Dr. Anantharaj Sengeni [I] (15:15–15:35)
15:45–16:15	Tea Break		
	<i>Oral Judge 1: Dr. Yi-Shiuan Wu</i>	<i>Oral Judge 2: Dr. Katchala Nanaji</i>	<i>Oral Judge 3: Prof. Tai-Feng Hung</i>
16:15–17:30	Oral Presentations (A1–A7)	Oral Presentations (B1–B7)	Oral Presentations (C1–C6)
17:30–18:40	Poster Session (F-J)- Judges: Dr. Yi-Shiuan Wu, Dr. Raja M, Dr. Ramesh K. Singh, Dr. Mary Gladis, Dr. Raveendra Gundlapalli		
18:40–19:25	Cultural Program in TTJ Hall		
19:25 onwards	Dinner		

Conference Day 3 — 15th July 2026 (Wednesday)

Time	TTJ Hall	Hall 1	AMM Hall
	<i>Chairperson: Prof. Raman Vedarajan</i>		<i>Chairperson: Dr. Nikhil Tambe</i>
09:00–09:20	Sponsor Talks		
09:20–09:55	Special Talk by Dr. Rohini Kitture		
09:55–10:30	Prof. Vijay Ramani [K]		Dr. Bijay P. Tripathi [K]
10:30–11:05	Dr. Aiswarya Bhaskar [K]		Prof. S. Ramanathan [K]
11:05–11:35	Tea Break		
	<i>Chairperson: Dr. Nitin Muraleedharan</i>	<i>Chairperson: Dr. Katchala Nanaji</i>	<i>Chairperson: Prof. Ramanathan S</i>
11:35–11:55	Prof. Balakumar [I]	Dr. Anil Kumar Paidi [I]	Dr. Rakhi R. B. [I]
11:55–12:15	Prof. Maiyalagan T [I]	Dr. Natarajan Subramanian [I]	Prof. Nirmala Grace [I]
12:15–12:35	Dr. R. Arun Prasath [I]	Dr. Asha Gupta [I]	Dr. Mudit Dixit [I]
12:35–14:00	Lunch Break		
	<i>Chairperson: Prof. Kartik Chandra</i>	<i>Chairperson: Prof. Raghuram Chetty</i>	<i>Chairperson: Dr. Chaitanya Yamijala</i>
14:00–14:15	Dr. Sweta Lal [C]	Dr. Arun Varghese [C]	Dr. Rakesh [C]
14:15–14:30	Dr. Debasis Ghosh [C]		Dr. S. Chand Rakesh Roshan [C]
14:30–14:40	Buffer Time		
	<i>Oral Judges — 4: Dr. Raman Vedarajan 5: Dr. Venkataraman 6: Dr. Asha Gupta</i>		
14:40–16:00	Oral Presentations (A8–A14)	Oral Presentations (B8–B12)	Oral Presentations (C7–C12)
16:00–16:30	Tea Break		
16:30–17:30	Valedictory Event		

Workshop Day 1 — 16th July 2026 (Thursday)

Time	Activity	Lecture / Title	Participants	Duration
08:30–08:50	Registration		All participants; groups G1–G6 formed	20 min
08:50–09:00	Workshop Briefing		All participants	10 min
09:00–10:00	Lecture Session 1	Solid-state electrolytes: synthesis and characterization — Prof. Venkataraman Thangadurai (University of St Andrews, UK)	All participants	60 min

Time	Activity	Lecture / Title	Participants	Duration
10:00–10:05	Transition			5 min
10:05–11:35	Lecture Session 2	Thermodynamics and electrochemical kinetics in the context of batteries — Prof. Lee Johnson (University of Nottingham, UK)	All participants	90 min
11:35–11:50	Tea Break			15 min
11:50–13:20	Lecture Session 3	Electron Microscopy and Related Techniques for Materials Analysis — Dr. Richard Baker (University of St Andrews, UK)	All participants	90 min
13:20–14:20	Lunch Break			60 min
14:20–15:50	Lecture Session 4	X-ray Photoelectron Spectroscopy — Prof. R. Kothandaraman (IIT Madras, India)	All participants	90 min
15:50–16:05	Tea Break			15 min

Workshop Day 2 — 17th July 2026 (Friday)

Time	EIS	Battery & SC Fabrication	XPS	TEM	Lab Visit	Duration
09:00–10:00	G1	G2	G3	G4		60 min
10:00–10:10	Transition					10 min
10:10–11:10	G3	G4	G5	G6	G1, G2	60 min
11:10–11:30	Tea Break					20 min
11:30–12:30	G5	G6	G1	G2	G3, G4	60 min
12:30–13:30	Lunch Break					60 min
13:30–14:30	G2	G1	G4	G3	G5, G6	60 min
14:30–14:50	Tea Break					20 min
14:50–15:50	G4	G3	G6	G5		60 min
15:50–16:00	Transition					10 min
16:00–17:00	G6	G5	G2	G1		60 min

Modules & Focus

Experiment 1 — Diffusion Analysis via Rotating Disk Electrode (RDE)

Hands-on execution of EIS using an RDE, with comprehensive EIS data analysis differentiating finite-length and semi-infinite Warburg impedance behaviours.

Experiment 2 — Assembly and Electrochemical Evaluation of Coin Cells and Supercapacitors

Step-by-step fabrication of coin cells and supercapacitors, followed by Cyclic Voltammetry (CV) for kinetic and mechanistic insights, Galvanostatic Charge–Discharge (GCD) for capacitance and energy-density evaluation, Galvanostatic Intermittent Titration Technique (GITT) for diffusion-coefficient determination, and Differential Capacity Analysis (dQ/dV) to identify phase transitions and degradation mechanisms.

Demonstration 1 — Functioning and Analysis of HRTEM

Particle morphology analysis (size, shape, aggregation, thickness contrast); high-magnification imaging at 100k, 200k and 500k; lattice-fringe analysis and interplanar-spacing measurement; SAED pattern interpretation for crystallinity and phase identification; and bright-field / dark-field comparison of morphology, defects and microstructure.

Demonstration 2 — Functioning of XPS

Acquisition of survey spectra for surface elemental identification, quantitative surface-composition and atomic-percentage analysis, and ion-etching-based depth profiling using standard samples.

Oral Presentations

No.	Name	Institution	Talk Title
A1	Priti Singh, Mudit Dixit	Center for High Computing, CSIR-Central Leather Research Institute (CLRI), Chennai, India	Unraveling the Fundamental Understanding of Anionic Redox Chemistry in Transition Metal Oxide Cathode Materials through First-Principles Calculations
A2	Sruthy E S, Christie Thomas Cherian	School of Electronic Systems and Automation, Digital University Kerala, Thiruvananthapuram, India	Engineering Hard Carbon-Antimony Composite Anodes for Enhanced Sodium Storage
A3	Shakina J Selva; M Siluvai Michael	SSN College of Engineering	Activation-Dependent Structural and Electrochemical Properties of Biomass-Based Hard Carbon Anodes for Sodium-Ion Batteries
A4	Tejram Dewangan, Katchala Nanaji	Department of Chemistry, Indian Institute of Technology (IIT) Bhilai, Durg, Chhattisgarh, 491002, India	Effect of Carbonization temperature in the Structure and Performance of Hard-Carbon Anode material for Sodium-Ion Battery
A5	Yash Senjaliya, Brindha Moorthy	Department of Chemical Engineering, Indian Institute of Technology Tirupati, Tirupati, India	Engineering $\text{Na}_3(\text{VO})_2(\text{PO}_4)_2\text{F}$ Polyanion Cathode with Transition Metal Doping for High-Performance Sodium-Ion Batteries
A6	Md Kasif, Ranjith Thangavel	Indian Institute of Technology, Tirupati, Andhrapradesh	Organic Molecule Engineered Manganese Prussian Blue Cathodes High Voltage Sodium-Ion Batteries
A7	Laxman Kumar Kundarapu, Maruthi M Prasanna, Sreenivas Jayanti	Department of Chemical Engineering, Indian Institute of Technology Madras, Chennai 600036, India	Scale-Up Challenges in Flow Through-Mode Vanadium Redox Flow Battery Cell with Composite Bipolar Plates
A8	Rajendra Kumar, Pawan Kumar, Sudhir Kumar	Department of Energy Science and Engineering, Indian Institute of Technology Bombay, Powai, Mumbai, India	Carbon-Coated $\text{Zn}_2\text{P}_2\text{O}_7$ Microsphere as a Sustainable Fast-Charging Anode for Lithium-Ion Battery Applications
A9	Ashmi A, Kuruvilla Joseph	Department of Chemistry, Indian Institute of Space Science and Technology, Trivananthapuram, Kerala	Polysulfone-Driven Lithiophilic PVDF Polymer Electrolyte with PEG Enhanced Ionic Transport for Flexible Solid-State Lithium Batteries
A10	Dilkhush Zaroliwalla, Neetu Jha	ICT, Mumbai	Floral waste derived Activated Carbon as a conducting additive for sustainable Zinc ion batteries
A11	Hariram M, Debashish Sarkar	Malaviya National Institute of Technology, Jaipur, Rajasthan	Interlayer Dislocation Engineering of MoS_2 Nanosheets for Ultrafast and Durable Rocking-Chair Zinc-Ion Batteries
A12	Ava N Nair; Sai Kumar Pani Vangala	IISER Bhopal	A 2D-COMSOL Multiphysics model of a gradient-based parallel flow fields (PFF) for performance enhancement of direct methanol fuel cells (DMFCs)
A13	Shubham Singh, Pankaj Kalita	Indian Institute of Technology Guwahati, Guwahati, Assam-781039, India	Development of a Low-Cost Mn/VC Electrocatalyst for Direct Glycerol Fuel Cell Application
A14	Irshad M.K; Biji Pullithadathil	PSGIAS, Coimbatore	Interface-Engineered MoN/Carbon Hybrid Supports for Durable Platinum Electrocatalysts in PEM Fuel Cells
B1	Rajesh Katru, Uday Kumar Khanapuram	Energy Materials and Devices (EMD) Laboratory, Department of Physics, National Institute of Technology, Warangal, Telangana	2D Mxene-Enhanced LDH electrodes: Flexible Symmetric Supercapacitors with High Energy Density and Robust Cycle Life

No.	Name	Institution	Talk Title
B2	Jency J, Sandhya K Y	Department of Chemistry, Indian Institute of Space Science and Technology, Trivananthapuram, Kerala	An insight into the effect of sonication and activation in PET- derived activated carbon for supercapacitors -A waste upcycling approach
B3	Kowshik V, Seenuvasan Vedachalam	P.C. Ray Department of Chemistry, National Institute of Technology Puducherry,	Phosphazene-Based Covalent Organic Framework-Derived Palladium Nanocubes for High-Performance Supercapacitor Applications
B4	Asfaq Ali; Tapas Das	NIT Rourkela	Fabrication of MnFeNiCoO _i PCN/PANI-based Asymmetric Supercapacitor with high electrochemical performance and long-term stability
B5	Arunadevi K, Mahendran M	Department of Physics, Thiagarajar College of Engineering, Madurai, Tamilnadu	Rational Design of CuNi ₂₀ IMXene Heterostructures for High-Performance Supercapacitor Electrodes
B6	Vishal P. Bhandigare, Jihyeon Kim, Aruchamy Gowrisankar, Byung-Kwon Kim and Kyungsoon Park	Department of Chemistry and Cosmetics, Jeju National University, Jeju 63243, Republic of Korea.	Transforming Agro-Waste into Value-Added Materials for Energy Conversion and Storage: Toward a Circular Bioeconomy
B7	Soma Majumder, Vijeth Hebri	Advanced Materials for Device Applications Research Lab, Department of Physics, School of Sciences, Nagaland University (A Central University), Lumami, Nagaland	2D MXene-Anchored Ni-Co Tungstate Heterostructures for High-Performance Symmetric Supercapacitors and Selective Dopamine Sensing
B8	Milan Kumar Mandal, Rahul Ranjan, Jayanta Chakraborty	Department of Chemical Engineering, IIT Kharagpur	Improvement of DSSC Performance through co-sensitization of dye with Perovskite Nanocrystal (PNC)
B9	Amiya Mandal and Kanhaiya Lal Yadav	Smart Material Research Laboratory, Department of Physics, IIT Roorkee, India	Enhancing Energy Storage Performance of BNBT Ceramics through Quadruple Perovskite Engineering
B10	G. Priyanga, V. Bharathi Mohan, S. Raganandhini, S. Kesavan and M. Sathish	Electrochemical Power Sources Division, CSIR-Central Electrochemical Research Institute, Karaikudi 630 003, Tamil Nadu, India.	Bandgap-Engineered CdS/WO ₃ /CoNb ₂ O ₆ Photocatalyst for Solar Hydrogen Generation: Upscaling from Laboratory to Large Scale
B11	Velpula Mahesh; Rakesh Kumar Rajaboina	NIT Warrangal	Direct Growth of Zn-Co MOF Thin Films for High-Performance Triboelectric Energy Harvesting and Self-Powered Devices
B12	P. Femi Jasmine Rani, Naveena A Priyadharsini	Department of Electrical and Electronics Engineering, Loyola Institute of Technology and Science Thovalai, Kanyakumari, 629302, India	Topology-Aware Safety Compliance Assessment for Battery Energy Storage Systems in Smart Grids
C1	Kalpna Garg, Sukhjot Kaur, Abhishek Kumar, Vivekanand Shukla, Rajeev Ahuja and Tharamani C. Nagaiah	Department of Chemistry, Indian Institute of Technology Ropar Rupnagar, Punjab-140001, India	Boosted hydrogen production via selective electrooxidation of H ₂ S to thiosulfate
C2	Hari Prasaad Somasundharam, Sakkarapalayam Murugesan Senthil Kumar	Electroorganic and Materials Electrochemistry (EME) Division, CSIR-Central Electrochemical Research Institute (CECRI), Karaikudi-630 003, Tamil Nadu, India.	Water-Induced Phase Transition of ZIF-9: A Promising Strategy for Developing Co ₃ O ₄ Embedded Nitrogen-Doped 2D Carbon Sheets for Bifunctional Oxygen Electrocatalysis
C3	Vanathi Sundhara Bharathi, Sangeetha Kumaravel, Karthick Kannimuthu	Department of Chemistry, School of Advanced Sciences, Kalasalingam Academy of Research and Education	Lattice Strain-Modulated CoCuS/Cu ₂ S Nanorod Arrays for High-Performance Hydrogen Evolution Reaction
C4	Hemanga Pradhan Musthafa Ottakam Thotiyl	Department of Chemistry, IISER Pune, Pune-411008, India	Membraneless seawater electrolyzer

No.	Name	Institution	Talk Title
C5	Shivi Garg, Harsh Sharma, Neelkanth Nirmalkumar	Department of Chemical engineering, Indian Institute of Technology Ropar Rupnagar, Punjab-140001, India	CO ₂ to formic acid via nanobubbles-assisted electrochemical pathways
C6	Sneha Mittal, Anantharaj Sengeni	Laboratory for Electrocatalysis and Energy, Department of Chemistry, IITK Kanpur	A new approach to accurately determine the onset potential & Tafel slope beyond conventional CV/LSV limitations.
C7	K. Kogula Krishnakumar and Dr. Narayanamoorthy Bhuvanendran	Department of Environmental Science and Engineering, SRM University AP, Amaravati, 522240, Andhra Pradesh, India.	Highly dispersed Pt nanoparticles on hybrid aminoclay-rGO supports for enhanced oxygen reduction electrocatalysis in acidic and alkaline media.
C8	Chandan Kumar Nayak, Niranjana, Saurav Keshri and Anup Kumar Keshri	Department of Metallurgical and Materials Engineering, Indian Institute of Technology Patna, Bihar, India, 801106	Scalable Defect-doped Turbostratic Graphene for Bifunctional Electrocatalysis
C9	Bhawna Chauhan, Asad H. Sahir	Department of Chemical Engineering, Indian Institute of Technology Ropar, -140001, Punjab	LP-Based Feedstock Optimisation and Energy-CO ₂ Emissions Analysis of India's Petrochemical Sector
C10	Shubham Kumar Mishra, Sarit K Das	Department of Mechanical Engineering, Indian Institute of Technology Madras, Chennai, India	Spatial Uniformity of Localized Electric-Field Enhancement in Flow-Electrode Capacitive Deionization
C11	Manoj Vaishnav, Prasenjit Mondal	Department of Chemical Engineering, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand 247667	Catalytic co-pyrolysis of Prosopis juliflora pods and LDPE over biochar derived catalyst: Comprehensive thermogravimetric and kinetic study with ANN based prediction
C12	Uppada Ravi Teja	IIIT RGUKT RK Valley	Conceptual Design and Thermodynamic Analysis of an Air-Breathing Hydrogen-Fuelled Rotating Detonation Engine Hybrid Powertrain for Ground Vehicles

Poster Presentations

Group A — Li-ion, Li-S, organic batteries, recycling and battery lifecycle systems

PP No.	Name	Institution	Poster Title
A-1	Amruth A S, Jency J, Prabhu V R, Sandhya K Y	Department of Chemistry, Indian Institute of Space Science and Technology (IIST), Thiruvananthapuram, Kerala 695547, India	Upcycling PET Waste into Silicon–Carbon Composite Anodes for Sustainable Lithium-Ion Batteries
A-2	Sharmin Percy Kika, Radhakisan Kargude, Gitanjali Swain, Kothandam Krishnamoorthy	NCL, Pune	Polarity-Driven Side Chain Engineering for High-Performance Li-Ion Batteries
A-3	Shubham Dalavi, Sarika Hanamant Birajdar, Kothandam Krishnamoorthy	Polymer Science and Engineering Division, CSIR-National Chemical Laboratory, Pashan Road, Pune – 411008, India	Cationic Thermoset Binder to Suppress Polysulfide Dissolution in Li-S batteries
A-4	Sarika Hanamant Birajdar, Radhakisan Kargude, Subashini Maniam, Kothandam Krishnamoorthy	CSIR- National Chemical Laboratory, Dr. Homi Bhabha Road, Pashan, Pune-411008	Controlled Dissolution of Polymers as a Strategy for Long Cycling Stability of Organic Batteries
A-5	Nishi Keshari and Dr. Katchala Nanaji	Department of Chemistry, Indian Institute of Technology Bhilai, Durg, Chhattisgarh-491002, India.	Influence of Carbon Content and Coating Method on the Electrochemical Performance of Solvothermally Synthesized LiMn 0.6 Fe 0.4 PO 4 Cathodes
A-6	P.Poongothai; M Siluvai Michael	SSN College of Engineering	Investigation on regeneration of Lithium Cobalt Oxide(LCO)cathode from spent Lithium Ion Battery (LIB) by Facile Solid-State Reaction
A-7	Megha Satish Kumar	Department of Engineering Design, Indian Institute of Technology, Chennai 600036, India	Dynamics of Degraded Interphases in Second Life Battery Systems: A Review of Interfacial Evolution Under Stationary Storage Duty Cycles
A-8	ARUN KUMAR A, HEMAVATHI S	CSIR, CECRI, Chennai	Safety Assessment of PCM-Based Battery Thermal Management System Under Fast Discharge Operation
A-9	Sahil Kumar, Adithya Maurya K.R., Mudit Dixit	CSIR-Central Leather Research Institute (CSIR-CLRI), Chennai - 600020, India	Unravelling the Catalytic Activity of Dual-Metal Doped N ₆ -Graphene for Sulfur Reduction via Machine Learning-Accelerated First-Principles Calculations
A-10	Harini Gopalakrishnan, Sriram Subramanian	Department of Physics, School of Electrical & Electronics Engineering, SASTRA Deemed to be University, Thanjavur, Tamil Nadu, India- 613401	DFT insights into Al-ion Storage and Dynamics on Ti ₂ C Monolayer Anodes
A-11	K. Ramakrushna Achary, Chinmoy Das	Department of Chemistry, SRM University AP, 522502, India	Investigation of Fluoride-Ion-Conducting Mechanochemically Synthesized Solid Electrolytes and Superionic Hybrid Polymer Electrolytes for All-Solid-State Fluoride-Based Energy Storage Devices

Group B — Na/K/Mg/fluoride-ion, redox-flow and other non-zinc battery systems

PP No.	Name	Institution	Poster Title
B-1	Soumya Ranjan Ghadai, Jitendra Kumar Yadav, Ambesh Dixit	Advanced Materials and Devices (A-MAD) Laboratory, Department of Physics, Indian Institute of Technology Jodhpur, Rajasthan 342037, India	Biomass Waste Derived Porous Hard Carbon with Enhanced Ion Storage Kinetics for Sodium-Ion Batteries
B-2	Shitanshu Pratap Singh and Rajendra Kumar Singh	Energy Storage Materials and Devices Lab, Department of Physics, Institute of Science, Banaras Hindu University	A Robust KNFM Cathode with Fast K-Ion Kinetics for Potassium-Ion Batteries
B-3	Gaurav Jaiswal, Raveendra Gundlapalli	1Department of Chemical Engineering & Technology, IIT (BHU) Varanasi – 221005 (U.P)	Tailoring the features of Serpentine and Interdigitated Flow Fields for Improved Performance in Vanadium Redox Flow Batteries
B-4	Kanya Koothanatham Senthilkumar, Ramanujam Brahmadesam Thoopul Srinivasa Raghava	Department of Physics, Amrita School of Physical Sciences, Coimbatore, Amrita Vishwa Vidyapeetham, India	Influence of Zinc Oxide (ZnO) Morphologies on Sodium-Ion Transport in Poly(vinylidene fluoride) (PVDF)–Poly(ethylene oxide) (PEO)-Based Solid Polymer Electrolytes
B-5	Pauline Ida P; M Siluvai Michael	SSN College of Engineering	Fabrication and Characterization of Plasticized Solid Biopolymer Electrolytes for Sustainable Na-Ion Capacitors
B-6	Ankit Rai, Bijay P. Tripathi	Department of Materials Science and Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016, India	Regulating π - π Interactions in Naphthalene Diimide – based Anolytes for Neutral pH Aqueous Redox Flow Batteries
B-7	Sanjaykumar C, Rajendra Singh, Vipin Kumar	School of Interdisciplinary Research, Indian Institute of Technology Delhi, Hauz Khas, New Delhi, 110016, India	Localized Engineering of the Solvation Sheath to Realize the Development of Ultra-fast Charge Sodium-Dual Ion Batteries
B-8	Ankita Pandey, Abhishek Kumar Gupta	Department of Physics, Harcourt Butler Technical University, Kanpur	Insights into the adsorption mechanisms of sodium polysulfides on Sodium Trithiocarbonate surface for Sodium-Sulfur batteries
B-9	Prakash and K. Radhakrishnan, Manikandan Ayyar	Department of Chemistry, Karpagam Academy of Higher Education, Coimbatore - 641021, Tamil Nadu, India	Preparation of an $\text{MgMoV}_2\text{O}_6/\text{MnO}_2$ nanocomposite as a cathode for magnesium-ion batteries
B-10	Jhansi Rani M, Dipsikha Ganguly, Prof. S Ramaprabhu1, Prof. P N Santhosh	Alternative Energy Nanotechnology Laboratory, and 2Department of Physics, Indian Institute of Technology, Madras, Chennai 600036, India	Chemical Vapor Deposition of CNT on Ni–TiO ₂ Matrix for Sodium-Ion Battery Anodes
B-11	K. Sasikumar, L.N Patro	Department of Physics, SRM University AP, 522502, India	Systematic Optimization of Mechanochemically Synthesized Polyanionic Cathodes for Cost-effective, High-performance Sodium-Ion Batteries

Group C — Zinc-based batteries, Zn-air, Zn-sulfur and aqueous Zn energy storage

PP No.	Name	Institution	Poster Title
C-1	Aswathy D, Ramesh Kumar Singh	Centre for Nanotechnology Research, VIT Vellore, 632014, Tamilnadu, India	A Novel PVA/PEG/SiO ₂ /GO Gel Polymer Electrolyte with Enhanced Water Retention for Zinc-Air Battery
C-2	Arpita Mishra, Anshuman Dalvi	Department of Physics, Birla Institute of Technology and Science, Pilani, Pilani Campus, Vidya Vihar, Pilani, Rajasthan 333031, India	Novel Quasi-solid-state electrolyte membranes for Zn ²⁺ ion energy storage devices.
C-3	Tanaya Dutta	IIST, Trivandrum	Electrolyte Reconstruction via Acetate-Rich Mixed Solvent Systems for Highly Stable Zn Zn Cycling
C-4	Francis Ashamary, Elangovan Sivasurya, Devaraj Manoj	Department of Chemistry, Karpagam Academy of Higher Education, Coimbatore- 641021, Tamil Nadu, India	Investigation of Performance of highly delaminated Mo ₂ CT x MXene as Cathode material for Aqueous Zinc Metal Batteries
C-5	Yash G. Kapdi, Saurabh S. Soni	Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar-388 120, Gujarat, INDIA	Covalently Anchored Molecular Sulfur on an Organosilica Framework for High-Performance Zinc-Sulfur Batteries.
C-6	N. Allwyn, M. Sathish	Electrochemical Power Sources Division, CSIR-CECRI, Karaikudi, Tamil Nadu, India	Entropy-Engineered Layered Double Hydroxide Derived High-Entropy Alloy Cathodes for Zinc-Air Batteries Under High Depth-of-Discharge
C-7	Divya Rani, Pushpendra Kumar	Jawaharlal Nehru University, New Delhi, 110067	Cathode Electrolyte Interface Protected Widely-Interlayered Hydrated Vanadium Oxide as Cathode for Ultra Stable Aqueous Zinc Ion Batteries
C-8	Sarbjit Kaur, Shivangi Mehta, Chirag Tayal and Tharamani C. Nagaiah	Department of Chemistry, Indian Institute of Technology Ropar, Rupnagar, Punjab-140001, India	Unlocking Energy Potential: Zinc Peroxide in Energy Storage
C-9	Chirag Tayal, Shivangi Mehta and Tharamani C. Nagaiah	Department of Chemistry, Indian Institute of Technology Ropar, Rupnagar, Punjab-140001, India	Towards High-Energy-Density Aqueous Zinc-Sulfur Storage: A Multi-Pronged Strategy for Enhanced Conductivity and Anode Stability
C-10	Ritika F. Rathod, Sanjay N. Bariya, Saurabh S. Soni	Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar 388 120, Gujarat, India	Influence of Polymer Microcrystalline Phases on the Electrochemical Performance of Aqueous Zn–Organic Batteries
C-11	Minal Sorathiya, Saurabh Soni	Department of Chemistry, Faculty of Science, Sardar Patel University, Vallabh Vidyanagar, Gujarat, INDIA	Engineering a Redox-Active Organic Cathode for a High-Performance Aqueous Zinc-Ion Energy Storage Device
C-12	Dinesh Patel, Xiaolei wang, Dr Ashwini Kumar Sharma	Indian Institute of Technology Roorkee, India	Double Layer Reconstruction for Highly Stable Zn Anode

Group D — Supercapacitors and hybrid capacitors: carbon, biomass, MXene and flexible electrodes

PP No.	Name	Institution	Poster Title
D-1	Krishnaja P V, Biniha N N	Department of Chemistry, University of Calicut, Thenhipalam, Malappuram, Kerala, 673635	Waste Plastic-Derived Fe_2O_3 /Graphene/Carbon Ternary Nanocomposite Electrodes for High-Performance Supercapacitor Applications
D-2	Love Bansal, Sneha Mittal, Anantharaj Sengeni	Laboratory for Electrocatalysis and Energy (LEE), Department of Chemistry, Indian Institute of Technology Kanpur, Kanpur, Uttar Pradesh 208016, India	Unlocking Synergy in NiFe-LDH Nanoflakes for Flexible, High-Performance Supercapacitors
D-3	Purushothaman M	Karpagam Academy of higher Education	Porous Engineered N, P, S doped Carbon cathode for Zinc ion hybrid capacitor
D-4	Saurav Keshri	IIT Patna	Ultrafast, Chemical-Free: in-Situ CQDs anchored within biomass derived porous carbon framework
D-5	Naveenkumar K; Viswanathan Chinnuswamy	Bharathiar University; Coimbatore	Interfacial Charge-Transport Engineering and Defect-Modulated Electrochemical Kinetics in Free-Standing Flexible $\text{Ti}_3\text{C}_2\text{T}_x$ MXene/Plasma-Functionalized MWCNT Films for High-Performance Supercapacitors
D-6	Charis Caroline S; Anantharaj Sengeni	IIT Kanpur	Impedance as a Diagnostic Lens: Reframing Supercapacitor Performance Through Electrochemical Impedance Spectroscopy
D-7	Muthu Chandru Sundaram, Manik Clinton Franklin, Hemalatha Kuzhandaivel, Karthick Sivalingam Nallathambi	Electrochemical Materials and Devices lab, Department of Chemistry, Bharathiar University, Coimbatore, Tamil Nadu, India.	Synergistic Electrolyte Engineering of K-Cu-Mn-based Prussian Blue Analogues for High-Performance Aqueous Supercapatteries
D-8	Kandavel Preethika Andal, Gokulraj Baskaran, Annamalai Senthil Kumar	Nano and Bioelectrochemistry Research Laboratory, Carbon dioxide Research and Green Technology Centre, Vellore Institute of Technology, Vellore-632 014, India	Electrochemical Exfoliation-Assisted Synthesis of Co_3O_4 -Doped Functionalized Carbon for Supercapacitor Application
D-9	Ahana B; Shounak De	MIT Manipal	DEVELOPMENT OF POROUS 3D-GRAPHENE BASED ELECTRODES FOR SUPERCAPACITORS
D-10	Aashika H	Crescent Institute of Technology, Chennai	Harnessing graphene nanoplatelets@zinc-doped manganese oxide nanostructures for electrochemical energy storage
D-11	Veereshappa H M, Shankar J, Navya C S, Pranavi Reddy K S, Shanmugasundaram O L, Srinivas Budagumpi, V Ganesh, Nagaraju D H	REVA University, Bengaluru	Deciphering Charge Storage Kinetics in Ni-rich Nickel Sulfide and Dual-Engineered Coir Fibers Activated Carbon and Toward High Energy Density Asymmetric Supercapacitors

Group E — Supercapacitors and hybrid capacitors: metal oxides, sulfides, phosphides and ferrites

PP No.	Name	Institution	Poster Title
E-1	Darshan S, Shounak De, Adarsh Rag, Mohan K Rao1	Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal-576104, Karnataka, India	Enhanced Ionic Conductivity of LiClO_4 Doped PVA-Chitosan Solid Polymer Electrolytes Plasticised with $[\text{EMIM}][\text{EtSO}_4]$ for Supercapacitor Applications
E-2	Poovitha Ganesan, B. Leena, S. Divyadharshini, D. Paul Joseph, Kovendhan Manavalan	Department of Physics and Nanotechnology, SRM Institute of Science and Technology, Kattankulathur, Chengalpattu - 603202, Tamilnadu, India.	Enhancement of electrochemical performance in NiO/NiS/MWCNT ternary composite for supercapacitors application
E-3	T. Prathap, S. Divyadharshini, D. Paul Joseph, M. Kovendhan	Department of Physics and Nanotechnology, SRM Institute of Science and Technology, Kattankulathur, Chengalpattu - 603203, Tamilnadu, India.	DEVELOPMENT OF NANO STRUCTURED ELECTRODE MATERIALS FOR HIGH PERFORMANCE SUPERCAPACITORS
E-4	T. Manimekala, R. Sivasubramanian, D. Gnanaprakash	PSGIAS Coimbatore; SRMIST Chennai	Scalable Powder-Based $\text{CuCo}_2\text{O}_4/\text{CuO}$ Mixed-Phase Electrodes with Tunable Structure and Morphology for Supercapacitors
E-5	Manjeet Jakhar, Kanhaiya Lal Yadav	Department of Physics, Indian Institute of Technology Roorkee, Roorkee, India.	NaBH_4 -Driven Structural Engineering In Cobalt Ferrite for High-Performance Supercapacitors
E-6	R. Gokul, M. Selvakumar, M. G. Mahesha	Department of Physics, Manipal Institute of Technology, Manipal	Interfacial Engineering of $\text{Mn}_3\text{O}_4/\text{NiO}$ Isotype Heterostructures by Sequential Spray Pyrolysis
E-7	Pracheta Trivedi and Dr. Anantharaj Sengeni, Department of chemistry, IIT Kanpur	Department of Chemistry, IIT Kanpur, Kanpur, India	Pulse Electrodeposition of Non-Equiatomc FeCoNiCu Quaternary alloy for Supercapacitor Application
E-8	Shanmathi Elango; T. Anusuya	Crescent Institute of Technology, Chennai	MOF-Derived NiCo_2O_4 /Porous Carbon/rGO Composite for Energy Storage Application
E-9	Sanjay N; Rajendran TV	SRMIST, Chennai	Engineering ZnSe-Integrated Mn/NiWO ₄ Nanocomposites for Ultrahigh Capacitance Supercapacitor Electrodes
E-10	RAVIKANNAN GOTHANDARAMAN; Nithiananthi P	The Gandhigram Rural Institute, Dindigul	Pressure-Driven Synthesis of Mixed-Phase NiCoP/NiP-MWCNT Composites for Enhanced Hybrid Supercapacitor Performance
E-11	Pulkit Garg; Ankit Tyagi	IIT Jammu	Metal Doped ZnMn_2O_4 as a High-Performance Cathode Material for Hybrid Supercapacitors

Group F — Solar cells, photocatalysis, sensors, energy harvesting and functional devices

PP No.	Name	Institution	Poster Title
F-1	Priyadarshini Madhavan and K. K. R. Datta	Department of Chemistry, SRM Institute of Science and Technology, Kattankulathur-603203, Tamil Nadu, India	Zeolitic Imidazolate frameworks supported on graphene oxide for the degradation of Bisphenol A
F-2	Swati Kumari, Jhasaketan Nayak	Department of Physics, Indian Institute of Technology (Indian School of Mines) Dhanbad- 826004, Jharkhand, India	Enhanced formaldehyde gas sensing properties of hydrothermally synthesized titanium dioxide nanospheres observed at room temperature
F-3	Yoganand Singh, Pankaj Srivastava	Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi 221005, India	Hydrothermally synthesized anatase TiO ₂ nanocuboids using cellulose derivatives as capping agents and morphological characterizations
F-4	Nikhil Srivastav, Pankaj Srivastava	Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi 221005 India	Charge Transport and Recombination Behaviour of DSSCs Investigated by Electrochemical Impedance Spectroscopy
F-5	Ankush Kumar, Ranjan Kumar Malik, Moluguri Pranitha and Ajay D. Thakur	Department of Physics, Indian Institute of Technology Patna, Bihta, 801106, INDIA	Anti-Freezing PVA/PVDF/Bentonite Organohydrogel for Flexible Strain Sensing
F-6	Muthuragavan Mahendiran, Vengadesh Kumara Mangalam Ramakrishnana	Department of Chemistry, SRM Institute of Science and Technology, Kattankulathur-603203, Tamil Nadu, India	Ambient-Temperature Processed Flexible Diisopropylammonium bromide (DIPAB)/Poly(vinylidene difluoride) (PVDF) Composite Film for Energy Harvesting and Non-Invasive Self-Powered Health Monitoring
F-7	Nevia D'Costa, Sudha D Kamath, Kalpataru Panda	School of Basic Sciences, Manipal Institute of Technology, Manipal, Karnataka, India.	PVDF-based Hybrid Composite Films: From Material Design to Energy Harvesting Applications
F-8	Sakshi Singh, Ananya Rai, Pankaj Srivastava	Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi, Uttar Pradesh, 221005 India.	Photovoltaic Application of Jatropha integerrima Flower Extract in Dye-Sensitized Solar Cells
F-9	Faisal Hussain Malik, Man Singh, a Sameer Kumar, Alankar Kafle, Kalpana Garg, Parimal Sharma, C. C. Reddy and Tharamani C. Nagaiah	Department of Chemistry, Indian Institute of Technology, Ropar, Punjab-140001, India	Economical 550 V energy harvesting from plastic and electronic waste using human motions
F-10	Himanshu Patel, Pankaj Srivastava	Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi, Uttar Pradesh, 221005 India.	Coconut water-assisted biogenic synthesis of TiO ₂ NP's with controlled morphology for DSSC application

Group G — Water electrolysis, HER/OER and green-hydrogen electrocatalyst materials I

PP No.	Name	Institution	Poster Title
G-1	Dhanavath Devikal, Rama Bhattacharya, Prof. Prakash Chandra Ghosh	Department of energy science and engineering, Indian Institute of Technology Bombay, Mumbai, India	Oxygen-Vacancy-Engineered CeO ₂ Nanoarchitectures in ABPBI Matrix: Unlocking Oxidative Resilience and High-Performance Alkaline Water Electrolysis
G-2	Hrudeswar Mohanty, Sellappan Senthilkumar	Department of Chemistry, School of Advanced Sciences, Vellore Institute of Technology (VIT), Vellore, Tamil Nadu, India-632014	N/C-Bridged Pd Nanoclusters as Efficient Electrocatalyst for Hydrogen Evolution Reaction at High Current Density
G-3	Guhananthan Arulprakash, Dhakshnamoorthi Harikaran, Vignesh Manivannan, Sankeertha M, Ranjith Kumar Dharman, Tae Hwan Oh, and R Vijayaraghavan	Department of Chemistry, School of Advanced Sciences, Vellore Institute of Technology (VIT), Vellore, 632014, India.	Dual site activated Sr substituted LaCoO ₃ as a bifunctional electrocatalyst for hydrogen and oxygen evolution reaction – role of oxygen vacancies and high spin states
G-4	Haritha Ramasamy, Senthilkumar Sellappan, Thenmozhi Kathavarayan	Department of Chemistry, School of Advanced Sciences, Vellore Institute of Technology (VIT), Vellore-632014	Rationally Designed High-Entropy Metal-Organic Framework featuring Multi Active Sites for Enhanced Electrochemical Water Splitting
G-5	Isaac Emmanuel J and Bhaskar Chandra Behera	Department of Physics and Nanotechnology, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu – 603 203, India	Unlocking Green Hydrogen Production in Cu- and V- based Catalysts
G-6	Navya Nanattil, Binitha N N	Calicut University	Synthesis of Cobalt-Functionalized Graphenic Carbon through Catalytic Carbonization of Biomass for Oxygen Reduction Reaction
G-7	Sandeep Yadav, and Anantharaj Sengeni	Department of Chemistry, IIT Kanpur, Kanpur, India	Ni-Fe MOFs and Hydroxides for Oxygen Evolution: Mechanistic Insights via Chemical Probes and pH Studies
G-8	Aiswarya Raj, Vivek Kumar	Applied Nanomaterials and Devices Laboratory, Department of Physics, Indian Institute of Information Technology, Design & Manufacturing, Kancheepuram, Chennai-600127, India	Oxygen Evolution Performance of Iron-Decorated MoO ₃ Nanorod in Alkaline and Seawater Electrolysis
G-9	T. Lavaneethan; A. Chandra Bose	NIT Trichy	Titanium Substitution-Induced Modulation of the Intrinsic Hydrogen Evolution Reaction Activity of SrFe _{1-x} Ti _x O _{3-δ}
G-10	Gunaseelan Ramar; Govindhan Maduraiveeran	SRMIST, Chennai	Nanoclusters of Metal-Organic Frameworks on NiO Nanosheets for Water Splitting

Group H — Water splitting, hydrogen-production systems and electrolyzer materials II

PP No.	Name	Institution	Poster Title
H-1	Nikhil Ashok Bodhare; Neetu Jha	ICT Mumbai	NiFeP electrodeposited on Nickel pre-deposited Nickel foam as bifunctional catalyst in alkaline medium
H-2	Parul Chafekar; Neetu Jha	ICT Mumbai	Nickel-iron layered double hydroxide as an efficient electrocatalyst for overall water splitting
H-3	M Iyyappan; Debasis Ghosh	Jain University, Bangalore	Modulating the Electronic Structure of NiFe Layered Double Hydroxides via oxo-anion Intercalation for Enhanced Alkaline Water Splitting Reaction
H-4	PRAISIA CHRISTALIN S; Neelkanth Nirmalkar	IIT Ropar	Nanobubble Assisted Seawater Electrolysis: A Novel Approach for Enhanced Hydrogen Production
H-5	K Vaishnavi Chandran; Sellappan Senthilkumar	VIT, Vellore	Electrodeposition of Gadolinium Doped Nickel Selenide - An efficient electrocatalyst for Hydrogen Evolution Reaction (HER) in Alkaline Media
H-6	Padinjarethil Vishnu, Ijjada Mahesh	IISER Bhopal	Development of Membrane-Free and Decoupled Flow Water Electrolyzer with Convergent Electrolytes for Impure Water Electrolysis
H-7	Ishee Prasad Kar, Anup Kumar Keshri	Department of Metallurgical and Materials Engineering, Indian Institute of Technology Patna – 801106	Phase-Engineered WC-Based Freestanding Electrode for Hydrogen Evolution
H-8	Santosh Kumar, Anup Kumar Keshri	Department of Metallurgical and Materials Engineering, Indian Institute of Technology Patna-801106	Plasma-Spray Exfoliation of Non-van der Waals TiB_2 into Ultrathin Nanosheets for the Hydrogen Evolution Reaction
H-9	Vartika Sharma, Vaibhav Kulshrestha	CSIR-Central Salt and Marine Chemicals Research Institute, Gijubhai Badheka Marg, Bhavnagar 364002, India	Integrated Spherical $\text{MnO}_2/\text{Nb-MXene}$ Cathodes for PEM Electrolysis Enabled by Interpolymer Cation Exchange Membranes
H-10	Bantumelli Prachuritha, Pranav Utpalla, Dasari Sai Hemanth Kumar, Divya Rani, Krishnamurthi Muralidharan	School of Chemistry, University of Hyderabad, Hyderabad, 500046, India	Efficient Low Band Gap Porous Polymers for Photoelectrocatalytic oxygen evolution and energy storage applications

Group I — Electrocatalytic reductions/conversions: nitrate, CO₂, N₂ and electrooxidation

PP No.	Name	Institution	Poster Title
I-1	Subhajit Pal, Sukhendu Mandal	School of Chemistry, Indian Institute of Science Education and Research Thiruvananthapuram, India	Structural Evolution of Copper Nanoclusters via Crystal-to-Crystal Transformation and Its Impact on Electrocatalytic Nitrate Reduction to Ammonia
I-2	Balakumaran Kamaraj, Anantharaj Sengeni	Laboratory for Electrocatalysis and Energy (LEE), Department of Chemistry, Indian Institute of Technology Kanpur, Kanpur, Uttar Pradesh 208016, India	Synergistic Ni(OH) ₂ -Cu Interfaces Enable Selective Electrocatalytic Nitrate Reduction Reaction
I-3	Shivani Saraswat, Anantharaj Sengeni	Laboratory for Electrocatalysis and Energy (LEE), Department of Chemistry, Indian Institute of Technology Kanpur, Kanpur, Uttar Pradesh 208016, India	Electrochemical Nitrate Reduction to Nitrite on a Galvanic Displacement-Derived Ag-Cu Catalyst
I-4	Rizvee Y	Indian Institute of Science Education and Research Thiruvananthapuram, India	Ultrastable, Luminescent, Propargyl Functionalized N-Heterocyclic Carbene Stabilized Cu ₆ Nanocluster for CO ₂ Electroreduction
I-5	Jyoti Rawat, Chirag Tayal, Kayaramkodath C. Ranjeesh, Tharamani C. Nagaiah*, Dinesh Shetty	Department of Chemistry, Indian Institute of Technology Ropar, Rupnagar, Punjab-140001, India	Bifunctional Fe-N _x Active Sites in a Triazine-Bis(imino)pyridine COF for Efficient Nitrate Reduction and Oxygen Evolution.
I-6	Muzamil Majeed and Prof. Tharamani C.N.	Department of Chemistry, Indian Institute of Technology Ropar, Rupnagar, Punjab-140001, India	Promotion of CO ₂ Electroreduction to C ₁ to C ₂ products via Bimetallic Bi@Co oxide Electrocatalyst for Enhanced Zn-CO ₂ Battery Performance
I-7	Pinaki Khan, Noohul Alam, Nikhil George Mohan, Sonam Dhull, Kothandaraman Ramanujam, Tarak Karmakar, and Sukhendu Mandal	School of Chemistry, Indian Institute of Science Education and Research Thiruvananthapuram, India	Tetranuclear Nickel Nanocluster with High Symmetry: A Potent Electrocatalyst for Nitrogen Reduction to Ammonia
I-8	Neha Clare Minj; Anantharaj Sengeni	IIT Kanpur	Repurposed Cu-Scrap as An Anode for The Electrooxidation of Small Molecules
I-9	Vinothkumar Ganesan and Sungho Yoon	Department of Chemistry, Chung-Ang University, Dongjak-gu, Seoul 06974, Republic of Korea.	Selective CO Valorization from Simulated Industrial Flue Gas via Cooperative Co-Al Catalysis for Sustainable Chemical Synthesis
I-10	Jotsana Kumari, Deepa Khushalani		Redefining Synthetic Organic Chemistry: A Sustainable Electrochemical Approach

Group J — Cross-cutting electrochemical systems: diagnostics, photoelectrochemistry, flow cells and metal-air

PP No.	Name	Institution	Poster Title
J-1	Vinod Sarky, Satyesh K. Yadav	Department of Metallurgical and Materials Engineering, Indian Institute of Technology Madras, Chennai, 600036, Tamil Nadu, India	Let Cyclic Electrochemical Data Speak for Your Energy Storage Material and Processing
J-2	M. Priyadharshini and R. Suresh	Department of Chemistry, Karpagam Academy of Higher Education, Coimbatore - 641021, Tamil Nadu, India	Photocatalytic and Electrochemical Performance of Cu-doped Fe_2O_3
J-3	Jyoti Dagar, Debashis Bandyopadhyay	BITS Pilani	Hydrogen storage on V-doped Graphsene: A DFT study
J-4	B. S. Srujana, Raviprakash Y.	Manipal Institute of Technology, MAHE, Manipal, Karnataka	Influence of Thickness on the Structural, Optical, and Photoelectrochemical Properties of Thermally Evaporated Hematite Thin Films
J-5	Shiv Shankar Kumar, Sreenivas Jayanti	Department of Chemical Engineering, Indian Institute of Technology Madras, Chennai 600036, India	Experimental study of capacity fade and vanadium ions mole balance under different operating voltage limits in a vanadium redox flow battery cell
J-6	Pulak Mondal, Musthafa Ottakam Thotiyl	Department of Chemistry, Indian Institute of Science Education and Research, Pune, Dr. Homi Bhabha Road, Pune 411008, India.	When Making Water Generates Energy
J-7	Swathi Tharani. D, and R. Sivasubramanian	Electrochemical Sensors and Energy Materials Laboratory, Department of Chemistry, PSG Institute of Advanced Studies, Coimbatore-641 004	Unravelling the potential of ceria decorated NiCo_2O_4 hierarchical micro flowers as an electrocatalyst for ORR in an Al-air battery
J-8	Parvathi V. G.; Azhagumuthu Krishnan	IISER Thiruvananthapuram, Kerala	Mechanochemically Engineered $\text{Pr}_2\text{O}_3/\text{Co}_3\text{O}_4$ Heterointerfaces on N-Doped Carbon as a Trifunctional Electrocatalyst for Rechargeable Zinc-Air Battery Applications
J-9	Sumanth Dongre S; Shwetharani R; R. Geetha Balakrishna	Jain University, Bangalore	CoPSe Embedded in Nitrogen-Doped Carbon as a Bifunctional Oxygen Electrocatalyst for Rechargeable Metal-Air Batteries
J-10	Sagar A M, Dr. Narayanamoorthy Bhuvanendran	Department of Environmental Science and Engineering, SRM University AP, Amaravati, 522240, Andhra Pradesh, India	Modulating the electronic structure of nickel zinc sulfide via cobalt doping for multifunctional urea-assisted electrocatalytic water splitting