

SI. No	TITLE
AWARD LECTURES	
AL-01	ECSI- N.M. Sampat Award Lecture: Dr N Rajasekaran
AL-02	ECSI Metrohm Award Lecture
AL-03	ECSI Dr K Elaya Perumal Award Lecture
AL-04	ECSI Mascot Award Lecture
AL-05	ECSI Amara Raja Award Lecture 1
AL-06	ECSI Amara Raja Award Lecture 2
MEMORIAL/ENDOWMENT LECTURE	
ML-01	Prof. T.L. Rama Char Lecture: Prof RR Sonde
EL-01	Dr S.R. Rajagopalan Endowment Lecture: Prof. K. Vijayamohan Pillai, Dean, IISER, Tirupati
EL-02	ECSI Mayanna Endowment Lecture: Dr. SP Singh, CSIR-NCL
ML-02	Dr. S. Krishnamurthy Memorial Lecture: Prof. Raj Kishore, Delhi University
PLENARY LECTURES	
PL-01	When corrosion addresses the challenges facing society: electrochemistry is not so far away... Prof. Bernard Normand, University of Lyon, France
PL-02	Oxygen reduction on passive films in relation to pits stability Fe-Cr alloys, Prof. Daniel J. Blackwood, Materials Sci. & Engg., National University of Singapore
PL-03	Novel approaches to hydrogen, CO ₂ conversion and ammonia to reduce carbon emissions, Prof. John Irvine, School of Chemistry, Univ. of St Andrew, U.K.
KEYNOTE LECTURES	
KL-01	Dr. Somenath Roy, CGCRI
KL-02	Prof. Pranjal Chandra, IIT BHU
KL-03	Prof. Dilip. K. Sarkar, UQC, Canada
KL-04	Prof. Rajeev Gupta, NCSU, USA
KL-05	Dr Ashish Kumar Mishra, IIT BHU
KL-06	Prof. Kothandaraman, IIT Chennai
KL-07	Prof. T N Narayanan, TIFR, Hyderabad
KL-08	Prof. Rama Kant, Delhi University
KL-09	Dr. David Ibanez, Metrohm
KL-10	Prof. Amartya Mukhopadhyay, IIT Bombay
KL-11	Prof. S. A. Hashmi, Delhi University
KL-12	Dr.Ramya, ARCI
KL-13	Prof. C.N. Tharamani, IIT Ropar
KL-14	Dr Subhasri, ARCI, Hyderabad
INVITED TALKS	
IT-01	Dr M. Santosh, CSIR-CIMFR
IT-02	Dr. A. K. Satpati, BARC
IT-03	Prof. Sangamitra ICT
IT-04	Dr. Somak Chatterjee, BITS Pilani
IT-05	Dr. S.C. Vanithakumari, IGCAR
IT-06	Dr Meenu Srivastava, CSIR-NAL
IT-07	Dr. Patrick Chapon, Horiba France
IT-08	Dr. J. Mary Gladis, IIIST

IT-09	Dr. Sachindranath Das, Jadhavpur Univ.
IT-10	Dr. Kuldeep Singh Kakran, CSIR-CECRI
IT-11	Dr. Vaishali Umrana, SAC, ISRO
IT-12	Dr. Ravi Kumar Arjun, IIT Jammu
IT-13	Dr. T. M. Sridhar, Madras University
IT-14	Dr. Anwasha Mukherjee, IGCAR
IT-15	Dr. Parveen Kumar Janjua, Maharaja Surajmal Brij University
IT-16	Dr. Utkarsh Jain, SoHST
IT-17	Dr. Sanket Goel, BITS Pilani
IT-18	Dr. Chaitanya Lekshmi, Plaksha University
IT-19	Dr. Mamata Mohapatra, CSIR-IMMT
IT-20	Dr. Ravi Kumar Arjun, IIT Jammu
IT-21	Dr. Gopinath Shit Dr. Rajini P. Antony
IT-22	Dr. Rajini P. Antony
IT-23	Prof. Koyel Banerjee Ghosh, IIT, Hyderabad
IT-24	Prof. Alex Joseph, Mahatma Gandhi University Kottayam
IT-25	Dr. Surender Kumar, CSIR-AMPRI
IT-26	Dr Ambesh Dixit, IIT Jodhpur
IT-27	Dr. Milind V. Kulkarni, CMET
IT-28	Prof. Samarendra Pratap Singh, SNIoE
ORAL PRESENTATIONS	
ANALYTICAL ELECTROCHEMISTRY-SENSORS	
OP- 01	Fail safe compliance of Electro chemical hydrogen sensor using suitable reference electrode and impedance measurements, Chita Ranjan Patra, Chinmay Routray, S. Shyam Kumar, Sajal Ghosh, R. Sudha, and Rajesh Ganesan,
OP-02	Development and characterization of gold PCB electrodes for electrochemical biosensing with gold-binding peptides, Syama S, Sujatha Sunil, and Ramanathan S,
OP-03	β -Cyclodextrin-conjugated Butein for Direct Electrochemical Detection of Antihistamine Drug, Ramya Kanagaraj and Murugan Veerapandian
OP-04	Hydrophobic corrosion sensing sol-gel coating for Mg AZ31 B Mary Mathews, Nithya Balakrishnan, J. S. John Tizzile, J. Jyothy mol, and Arunchandran Chenan
OP-05	Nanoparticle Modified Electrode surface for Detection of Hydroxymethyl Furfural- a contaminant of concern in food products Tejaswini Nayak, Pravin Savata Gade, Sindhu R. Nambiar, and Praveena Bhatt
OP-06	Analysis of Melatonin Using Poly(L-Tyrosine) Modified Graphene paste electrode. D. Sumanth, and J.G. Manjunatha
OP-07	Deposited NiO/Ni(OH) ₂ Thin Films on Paper-Modified Electrodes with Polypyrrole and rGO Sharmila Prashanth, Manvitha, Shaam Prasad Varija., K. Sudhakara Prasad, and Airody Vasudeva Adhikari
OP-08	A sensitive and selective study of electrochemical oxidation of Ciprofloxacin using poly (L-arginine) modified carbon paste electrode Sharmila B.M, and J.G. Manjunatha
OP-09	Bio-functionalized graphene quantum dot modified reduced graphene oxide based screen printed electrode for the detection of thyroid stimulating hormone

	Sudesh Yadav, Vikash Sharma, Rohit Kumar, Gajjala Sumana, Rajesh
OP-10	Designing and fabrication of a MOF-based electrochemical sensor for detection of alkaline phosphatase Ratul Paul, Shubhangi, Divya, and Pranjal Chandra
OP-11	Exploring electrochromic properties of polyaniline for smart windows application Amit Kumar, Amarjeet Kaur
OP-12	Synthesis of Ni-Cu ₂ O Nanocomposites and Its Dual Applications in Sensing and Energy Studies, P A. Junaid, J. Sonia, S.Sriram, K Giddaerappa, A Venkadesh, and K. Sudhakara Prasad
OP-13	Aloevera-Titanium oxide-Based Sensor for Quantification of Prasugrel in Solubilized System Antony Nitin Raja, and Sr Ligimol Louis
OP-14	Label-free Electrochemical Biosensor: Allergy-inducing Histamine Detection in peanuts with γ -MnOOH-W ₃ O ₁₀ Nanostructure Modified electrode A. Kushwaha, G. Singh, U.K. Guar and M. Sharma
OP-15	Optical and electrochemical Properties of exfoliated MoS ₂ , WS ₂ , and MoWS ₂ for Sensing Applications Bitupan Prasad, Kulsuma Begum, Jyoti Jaiswal, and Sanjeev Kumar
OP-16	Design and Fabrication of Chemically Modified Unzipped Multiwalled Carbon Nanotube and Reduced Graphene Oxide Nanocomposite for Picloram detection Daphika S Dkhar, Rohini Kumari, and Pranjal Chandra
OP-17	CuNi-rGO nanocomposites based nanochip for the instant detection of <i>Salmonella enterica</i> serovar Typhi Deepali Chaudhary, Shagun Gupta, Ankur Kaushal
OP-18	Nanozymatic hybrid based electrochemical sensor for real-time detection of superoxide anion release from living cells Indrani Nandi, Rohini Kumari, Kajal Kachhawaha, Sumit K. Singh, and Pranjal Chandra
OP-19	GQDs modified electrochemical immunosensor for simultaneous detection of Vitamin D3 and Ferritin Surbhi Sharma, Shagun Gupta, Adesh K Saini, Sasanka Chakrabarti, Reena V Saini, and Ankur Kaushal
ELECTROCHEMICAL ENERGY SYSTEM	
OP-20	Aluminum Alloy Anode Design for Long-Duration, Low-Power Seawater Batteries, Sreelakshmi Paruvayakode, and Ramanathan Srinivasan
OP-21	Electro-oxidation of ethanol using IrO _x -Pt electrode in the alkaline medium, Mohammad A. Hasnat, Md. Fahmidul Islam, Mohammad Imran Hossain
OP-22	Performance analysis of Tesla-valve-inspired flow-field for vanadium redox flow battery Aash Mohammad, and Milan Kumar
OP-23	Iron-Vanadium Doped Selenium Nanoparticles supported on Activated Carbon towards high performance vanadium flow battery Sharath Kumar B, Arthoba Nayaka Y, and Muralidhara H B
OP-24	Ionic Liquids as an Additives for the Stabilization of Rechargeable Aqueous Zinc-ion Battery Anode Sheetal Solanki, and Prashant Kumar Gupta
OP-25	Design and Development of Cement Reinforcing Composite for All Solid- State Battery M.G.Priyadharshini
OP-26	Optimization and investigation of redox additive incorporated PVA-based gel polymer

	electrolyte for high-performing supercapacitor application, Karsimran Singh, Shekhar, and Amarjeet Kaur
OP-27	Electrochemical analysis of ZnFe ₂ O ₄ symmetric supercapacitor. A. Fahad, J. K. Yadav, B. Rani, P. Saini, A. Dixit, M. K. Singh
OP-28	Rare earth Doped Lithium Titanate - carbon composites for stable cycling and high performance batteries Ashmi A, and Mary Gladis J
OP-29	Revolutionizing Energy Storage: 2D Borophene Thin Sheets for Next Generation Supercapacitors Sujatha D, Subhendu K. Panda, Nasir Mahmood
OP-30	Fabrication and Characterization metal chalcogenide-Carbon Nanotube Composite as an Anode for Sodium-Ion Batteries, Krishnendu K S, and J. Mary Gladis
OP-31	Electrochemically modified high surface area 304 stainless steel current collector for carbon-based supercapacitors, Rajshree Dugani, MD Afsar Hussain and Smrutiranjana Parida
OP-32	Synthesis of sustainable PEA-PANI/MWCNTs-based anticorrosive conductive coating for metallic bipolar plates in hydrogen fuel-cell application Ankita Chauhan, and Gaurav Manik
OP-33	A Fe-containing fluorophosphate-based cost-effective, air-stable, and rate-capable cathode material for K-ion rechargeable batteries Dipannita Saha, and Amartya Mukhopadhyay
OP-34	Facile synthesis of 1D Lithium-Based bimetallic layered double hydroxide (LDH) composite for electrochemical hydrogen storage, Himanshu Chauhan, and Ashish Yadav
OP-35	Organic-silicon heterojunction and its importance for energy conversion devices J.P. Tiwari
OP-36	Efficient CO ₂ utilization and sustainable energy conversion <i>via</i> aqueous Zn-CO ₂ batteries Sukhjot Kaur, Mukesh Kumar, Divyani Gupta, and Tharamani C.N
OP-37	Study on effect of synthesis route on the properties of LiFePO ₄ for energy storage application, Jenish Mugilan, Basil Chacko, and Madhuri Wuppulluri
OP-38	Highly Stable Non-Aqueous Iron-Ion Batteries using Iron oxide (Fe ₃ O ₄) Microspheres as Efficient Cathode Material Jitendra Kumar Yadav, Bharti Rani, Priyanka Saini, Anant Prakash Pandey, and Ambesh Dixit
OP-39	Effect of Novel Amino Acyl Silane Additive on the performance of Lithium-Metal Batteries, Mamta Sham Lal, Yogendra Kumar, Robin Kumar, Devendra Yadav, Dmitry Bravo-Zhivotovskii, Yitzhak Apeloig, and Malachi Noked
OP-40	Development of a three-electrode Composites with Sucrose for High-Performance Lithium-Ion Batteries Soham Sinkar, Saloni Sakala, and Aayush Desai
OP-41	Random interstratification of antimonene with V ₂ CT _x MXene: An electrode material with superior charge storage characteristics Shobhita Singal, Ashish Yadav, Geeta Chaudhary, and Raj Kishore Sharma
OP-42	Unleashing ultrahigh capacity and lasting stability: aqueous zinc-sulfur batteries Shivangi Mehta, Sukhjot Kaur, Man Singh, Mukesh Kumar, and Tharamani C. Nagaiah
OP-43	Micro-supercapacitor performance at subfreezing temperature with polyvinyl alcohol-

	borax-glycerol gel electrolyte Shafali Thakur, and Ravi Kumar Arun
OP-44	A Sustainable Method for Graphene Nanoparticle Coating on Nafion 117 and Performance Evaluation in Continuous Microbial Fuel Cells, Sandeep Dharmadhikari, Satyajit Bhattacharjee, Saurabh Meshram, Ghoshna Jyoti, and Nikhil Dhongde
OP-45	Synthesis and Study of Transition metal oxide for Supercapacitor Application Renisha Esther Sasikumar, Preethi Muruganandam, and Ashok Mahalingam
OP-46	Morphology Variations in Copper Sulfide Nanostructures as Anode Materials for Na-Ion Capacitors, Manoj Goswami, and Surender Kumar
OP-47	Electrochemical Production of Hydrogen from Hydrogen Sulfide Using Cobalt Cadmium Sulfide, Kalpana Garg, Mukesh Kumar, Sukhjot Kaur, and Tharamani C. Nagaiah
OP-48	Enhanced oxygen reduction kinetics of low-temperature solid oxide fuel cathode (LT-SOFC) cathode with novel $\text{Nd}_{0.8}\text{Sr}_{1.2}\text{CoO}_{4\pm\delta}$ (NSC 214) / $\text{Nd}_{0.1}\text{Sr}_{0.9}\text{Co}_{0.9}\text{Nb}_{0.1}\text{O}_{3-\delta}$ (NSCN 113) heterointerfaces Vinoth Kumar
OP-49	A Self-standing Quasi-gel-based polymer electrolyte for Solid-State Lithium/Lithium-ion Batteries, Mohana Priya Babu
OP-50	Retaining the reversible capacity by Lorentz forces for enhanced cyclability of aqueous zinc-bromide batteries using internal magnets Anjaiah Sheelam, Dalton L. Glasco and Jeffrey G. Bell
OP-51	LiNi_{1-x-y-z}Co_xFeyAlzO₂, a new low-cobalt cathode for next-generation Li-ion batteries, Shivam Dutta
OP-52	Ultrathin Nanosheets: 3D to 2D Journey of Water Splitting Catalysts, A. Indra
OP-53	1D Lithium-Based High-Entropy Alloy as an Efficient Electrocatalyst for Water-Splitting Reactions, Pooja Rani
OP-54	Fabrication and Characterization of CoZnMnO ₃ /PANI/MoS ₂ Composite for Hybrid Supercapacitors, Pavithra
OP-55	Trimetallic bifunctional electrocatalysts for electrochemical water splitting, Apurba Borah, Haddam Rajeshkhanna
OP-56	Efficient Economical and high-profit energy harvesting from plastic and electronic wastes using human bodily motions, M. Singh, S. Kumar and Tharamani C.N
OP-57	High Na-containing P2-structured 'layered' Na- transition metal oxide-based cathode material for Na-ion batteries: Development strategy, structural and electrochemical behavior with anionic redox, Adrija Goswami , Bachu Sravan Kumar , Velaga Srihari , Himanshu K. Poswal , Rahul Kumar , Abhijit Chatterjee , Amartya Mukhopadhyay
OP-58	Fabrication of waste-derived reduced graphene oxide/polypyrrole (WrGO/PPy) composite material electrodes for supercapacitor applications, N. Singh, V. Singh, U. D. Sharma
OP-59	Interfacial engineering of crystalline LaCo _{0.95} Mo _{0.05} O _{3-?} /amorphous CoMnB core-shell heterostructure as an efficient positive electrode for asymmetric supercapacitor, P. Soni, S. Singal and R.K. Sharma
OP-60	Enhancing the Corrosion Resistance of Aluminium Anode Using a Glycerol-Modified Aqueous Electrolyte with DL ?-Lipoic Acid Additives for Al-air battery applications, Muhammad M
OP-61	Next generation zinc air batteries: anode materials and design breakthrough", Priya

MATERIALS SCIENCE, SURFACE ENGINEERING & METAL FINISHING

OP-62	Improving the conductivity of TiO ₂ nanotubes formed on the titanium alloy through the anodization process, Sourashis Biswas, P. Chandramohan, A.L. Rufus and T. V. Krishna Mohan
OP-63	Development new brightener from the condensation of L-Methionine and glutaraldehyde for Zinc electroplating on mild steel from a sulphate bath. J. Chaithra, Y. Arthoba Nayaka, and H.R. Sahana
OP-64	Electrodeposition of Ni and Ni-Cu alloy in aqueous and ionic liquid media, M. Yazhmozhi, and V. Suryanarayanan
OP-65	Optimizing Electroactive Microbial Consortiums using Fe ₃ O ₄ Nanoparticles for Microbial Electrosynthesis of High-Value Chemicals for Sustainable Industrial Applications, Nikash Naorem, Chiranjeevi Partha, and Shashidhar Thatikonda
OP-66	Localized electrochemical properties of alkali-treated zirconium in simulated body fluid (SBF) solution A. Dharshini and N.Rajendran
OP-67	RoHS Compliant Electroless Nickel Plating on Titanium (6Al-4V) Alloy , N. T. Manikandanath, Varshith M.L., M. Ganesh, B. Shri Prakash and J.N. Balaraju
OP-68	Electroless copper plating of 3D printed polymer foam: A promising method to fabricate electrodes for denitrification Sunil Ugadi, Biswaranjan Muduli, Soumith Yeshamoni, Manas Mukherjee, Lakshman Neelakantan
OP-69	Anuj Awasthi
ELECTROCHEMISTRY	
OP-70	Understanding the Mechanism of Oxygen Evolution Reaction S. Shan, S. Ramanathan
OP-71	Mechanistic analysis of Electrochemical Carbon Dioxide Reduction to Formate on Tin Electrode Anoop Naikkath, Nikhil George Mohan, Kothandaraman Ramanujam and Ramanathan Srinivasan
OP-72	Theory for Anion Bridge-Assisted Heterogeneous Electron Transfer Neha Yadav, and Rama Kant
OP-73	Electrochemical studies of oxides formed on Incoloy 800 and Zircaloy 2 under simulated PHWR PHT conditions – <i>Effect of added Mg²⁺ ions</i> Sinu Chandran, H. Subramanian, Santanu Bera, T. V. Krishna Mohan and Veena Subramanian
OP-74	Anomalous Electric Double Layer Dynamics at Rotating Disk Electrode Neha and Rama Kant
OP-75	Investigations on the Electrochemical Behavior of Eu(III) in Ligand-Ionic Liquid Mixture Alok Rout and N. Ramanathan (not coming)
OP-76	Microstructural and Electrochemical Behavior Study of Ultrasonic Shot Peened Copper Sivasubramanian. J, and A. Basu
OP-77	Electroanalytical Application of Clay Modified Electrode Kalyani, Nandita Singh, Jitendra Kumar, and Uday Pratap Azad
OP-78	A Comparative Electrochemical study of Cobalt oxide (Co ₃ O ₄) synthesized by Conventional reflux and Microwave-assisted method Pappu Shriwas, Sweta Bhagat, Dileep Singh, Sameer Kumar Behera, and Ashish Kumar

	Singh
OP-79	Electrochemical study on Scheelite and Wolframite type MWO_4 compounds (M=Ca, Mn, Fe), Preethi Muruganandam, Renisha Esther Sasikumar, and Ashok
OP-80	Synthesis of Anthraquinone-Doped Polyaniline Nanocomposite by interfacial polymerization method and its application for Efficient Electrochemical Production of Hydrogen Peroxide, Roshni Augustine. V, Shweta Rachel. S, D. Suresh Kumar, K. Pandian
ELECTROCATALYSIS	
OP-81	A Metal-Organic Framework Derived Rare Earth Yttrium Single Atom Catalyst for Oxygen Reduction Reaction Sanjit Kumar Parida, Hrudananda Jena
OP-82	Electrocatalytic Reduction of CO_2 attained through SnS/PTFE Mohammad Imran Hossain, Mohammad A. Hasnat
OP-83	Utilization of superhydrophilic metallosurfactant electrocatalyst for enhanced cathodic oxygen reduction reaction in MFC Pooja Devi, Harshal Mehta, Uma Batra, and Gurpreet Kaur
OP-84	Copper oxide nanorods for photoelectrochemical CO_2 reduction Pankaj Kumar Singha, Jyotika Thakurb, Shyam K Masakapallib, and Aditi Haldera
OP-85	Synthesis of Various Stable MOFs and Evaluating Their Electrocatalytic Capability for Diverse Nitrophenol Reduction and Desulfurization Manivannan Mahendran, and Suryanarayanan Vembu
OP-86	Design of Rigidified μ -(9-Fluorenylthiolate) {FeFe} Hydrogen Evolving Catalysts Ritu, Tashika Agarwal, and Sandeep Kaur-Ghumaan
OP-87	Elevating Nitrogen Reduction Reaction Performance on a Lewis Acid Modified Copper Based Electrocatalyst via Push-Pull Interaction Surajit Samui, and Ramendra Sundar Dey
OP-88	Morphological dependent oxygen evolution reaction study of 2H-MoS ₂ nanostructures Rohit Kumar Gupta and Ashish Kumar Mishra
OP-89	Design and Assessment of a 2D Dual-Functional Cobalt-Based Metal-Organic Framework for Enhanced Oxygen Reduction and Evolution Catalysis Himanshi Bhambri and Sanjay K. Mandal
OP-90	Synthesis and analysis of high Oxygen Evolution Reaction efficiency of Fe-Co-Mo ternary mixed metal oxide Urwashi Gupta and Bratindranath Mukherjee
OP-91	2D-nickel hydroxide layers – an Electrochemical Sensors Priya Pathmanathan, A. Gomathi
OP-92	Cobalt-based bimetallic oxides for electrocatalytic water splitting P Babu, Priya Pathmanathan, and A. Gomathi
OP-93	Nanohybrid Materials for Electrocatalytic Oxygen Reduction and Water Splitting, Uday Pratap Azad
OP-94	GaN Nanofin Architectures on flexible metal foil grown by laser MBE for Photoelectrochemical Water Splitting Applications, Bipul Kumar Pradhan
CORROSION	
OP-95	Smart Sol-Gel Coatings: Thymol Blue and Phenolphthalein for Enhanced Corrosion Sensing and Protection on Mild Steel Ramay Patra, M. Santhosh, K.V. Gobi, and R. Subasri,
OP-96	Rare-earth corrosion inhibitor based paints for corrosion protection of low carbon steels K.R.C. Soma Raju, Aarti Gautam, Priya Indulkar, B.R.Mishra, K.V.Gobi, and R. Subasri

OP-97	Effect of low temperature aging on the corrosion behavior of friction stir welded UNS S32750 in 1 M HCl E Ajay, Indrashan K, V S Raja
OP-98	Evaluating Corrosion in OBC Enclosures: Stagnant Water Effects in Vehicle Simulation S. C. Bali, Shital Jadhav and Srishti Bhatt
OP-99	Effect of dissolved oxygen on the corrosion of Incoloy 800 in Ethanolamine-Octadecylamine solutions containing chloride, Veena Subramanian, Subrata Kuilya, Santanu Bera, and T.V. Krishna Mohan,
OP-100	Corrosion Inhibition of Magnesium Alloy AZ31 B with Sodium Carbonate, J. S. John Tizzile, J. Jyothy Mol, and Arunchandran Chenan
OP-101	Enhancement of corrosion resistance of mild steel with hydrophobic bi-layer coating, Abirami, B. Nithya, J.S. John Tizzile, J. Jyothy Mol, Mary Mathews, and C. Arunchandrana
OP-102	Graphene-NiO-PANI Nanocomposite-Based Epoxy Coatings to Protect Mild Steel in Aggressive Corrosive Environment Ravi Saini, Ramesh N Goswami, and Om P Khatri
OP-103	Influence of samarium on electrochemical and corrosion behavior of titania nanotubes S. Manju Bharathi and N. Rajendran
OP-104	Fabrication of rare earth metal oxide incorporated titania nanotubes to enhance corrosion resistance
OP-105	Effect of low temperature oxide microcapsules with catharanthus halicacabum L extract and amino acids coated in mild steel in 3.5 % NaCl D. Nalini and D. Priyanka
OP-106	Interactions of Fumigant – Phosphine, Carbon Di-oxide and Effect of Humidity on Electronic Component & Printed Circuit Board Corrosion Srishti Bhatt, and S. C. Bali
OP-107	Electrodeposition and Characterization of Ni-Cu corrosion resistant and thermal stability coatings for the efficient energy conversion Kalyan Raj
POSTER PRESENTATIONS	
PP-01	Energy: Supercapacitor Applications of $Ti_3C_2T_x$ MXene Nanomaterial and their Composites Avinash Rundla, Pushpendra Kumar, Kedar Singh, Jawaharlal Nehru University
PP-02	Investigating the potential of $MnZnFe_2O_4$ /GO nanocomposite for next- generation energy applications, Dipanwita Das, Bharati Tudu , and Ratan Sarkar Department of Physics, Jadavpur University,
PP-03	Prussian Blue of two different sizes as cathodematerial for supercapacitor application <u>Roshni Begum</u> , Chandan Kumar Ghosh, Jadavpur University
PP-04	High Entropy Oxide (HEO) for Hydrogen Evolution Reaction (HER) Neha Mishra, Chokkakula L. P. Pavithra, Debaprasad Shee, Suhash Ranjan Dey
PP-05	Enhancing cycling performance of on-chip micro-supercapacitor with laser irradiated carbonized polyaniline N doped graphene, Bharat Bhushan Upreti, Ramendra Sundar Dey
PP-06	Growth and characterization of ZnTe film on flexible Ti metal foil for water-splitting applications

	Antra, Bheem Singh, Sudhanshu Gautam, Rahul Kumar, Ankita Sharma, M. Senthil Kumar, Somnath C. Roy, S. S. Kushvaha
PP-07	High configurational entropy: Strategy to design P2-type layered oxide cathode for Na-ion batteries Amrapali Patil , Sagar Mitra
PP-08	Enhanced electrochemical performance of transition metal doped MoS ₂ as electrode materials for supercapacitor application Bijoy Jana, Mousumi Pramanik, Kaustuv Das, <i>Jadavpur University</i>
PP-09	Synthesis and Characterization of MoS ₂ -rGO nanosheets Composite for Supercapacitor Application Mahaveer singh, Puspendra kumar, Kedar singh
PP-10	Construction of LDH-derived Bimetallic Metal-Organic Framework (MOF) for high-performance Supercapattery fabrication Nitika Bhutani, Prem Kumar, Sushmita Baro, Rik Rani Koner
PP-11	CsPbBr ₃ -Activated Carbon Composite as a Photo- Supercapacitor Priyanka,Pushpendra Kumar, Kedar Singh, Jawaharlal Nehru University,
PP-12	Pd ‘Kills Two Birds with One Stone’ for the synthesis of porous organic polymer catalyst: dual active sites of Pd triggers the kinetics of bifunctional oxygen electrocatalysis Greesh Kumar, Sabuj Kanti Das, Chandrani Nayak, Ramendra Sundar Dey
PP-13	NASICON Solid electrolyte separators for long duration rechargeable sodium metal based sea water batteries Lakshmi Narayana Manickavasagam, N Muralidharan
PP-14	3D Reconstruction of Rough Pt, Au, ITO and Graphene Electrode Surfaces using Electrochemical Impedance Spectroscopy (EIS) and SEM, Parveen Kumar, Rama Kant
PP-15	Tailoring the Interfacial Water Structure by Electrolyte Engineering for Selective Electrocatalytic Reduction of Carbon Dioxide Nandita Mohandas, Tharangattu N. Narayanan, Angel Cuesta
PP-16	Electrochemical Analysis of the Antioxidant Rutin by Utilizing Poly leucine Modified Graphite Powder Extracted from Discharged Battery K. P. Moulyya, J. G. Manjunatha
PP-17	Electrochemical study of hydrothermally and solvothermally treated Ti ₃ C ₂ TX MXene from CV and GCD techniques. Bheem Kumar, Prof. Kedar Singh
PP-18	Unearthing low overpotential of Platinum electro-grafted Ni-Co-S as efficient Hydrogen evolution electrocatalyst Arushi Arora and Menaka Jha
PP-19	Electrochemical detection of depression biomarker serotonin using cucurbit[6]uril modified Pt electrode Ratnesh Kumar, Nisha kumari, Rama Kant
PP-20	PANI-GQD’s nanocomposite based electrochemical DNA sensor for detection of Helicobacter pylori. Rachna Poria, Desmond Lutomia, Ankur Kaushal, Shagun Gupta
PP-21	Cu-based nanozyme as a multifunctional electrochemical sensor for Glucose and Hydrogen Peroxide P. Dhanalakshmi, P. Pathmanathan, and A. Gomathi
PP-22	Rapid pathogenic nucleic acid isolation and detection using a paper-based microfluidic integrated miniaturized electrophoresis system, Natish Kumar, Monika Kumari, Ravi Kumar Arun
PP-23	Bioelectrochemistry and Biosensors

	Nandita Singh, Jitendra Kumar, Kalyani, Uday Pratap Azad
PP-24	Efficient Detection of Hydrogen Peroxide Using a Sulfur Adlayer Immobilized Au/GCE Electrode in a Basic Medium, Mohammad Imran Hossain, Mohammad A. Hasnat,
PP-25	Development of a Microfluidic Device for Blood Cell Counting Using Electrochemical Methods Monika Kumari, Natish Kumar, Dr. Ravi Kumar Arun IIT Jammu,
PP-26	Highly Catalytic Nanoelectronic Electrochemical Sensing Chip Comprising 3D Metallic Dendrites for Detection of Contaminant in Environmental Matrix Rohini Kumari, Pranjal Chandra
PP-27	Analytical Electrochemistry-Sensors Novel Eco-Friendly NaCMC-ZnO Biopolymer-based Electrolytes with Enhanced Electrochemical Performance and Stability in Green Energy Storage
PP-28	Electrochemical activity of MoSe ₂ nanostructures for supercapacitor application Ravishankar, Swatendra Kumar Gupta and Ashish Kumar Mishra Indian Institute of Technology (BHU)
PP-29	Development of energy grade materials from low grade Manganese ore, Megha Dash, T. Pavan Kumar and Mamata Mohapatra
PP-30	Surface engineering of zinc metal anode using natural sugars for aqueous zinc-ion batteries Akash Lata, Ravi Kumar Arun
PP-31	Enhanced Light Trapping in Silicon via Electroless Copper Catalyzed Chemical Etching for Solar Cell Application Riya Bansal, Jayant, Subha Laxmi, J.S. Tawale, Pratap Pathi, Sanjay K. Srivastava, CSIR-National Physical Laboratory
PP-32	Synthesis and Characterization of Orthorhombic MoO ₃ for Energy Applications Jayant, Riya Bansal, Subha Laxmi, J.S. Tawale, Prathap Pathi, Sanjay K. Srivastava
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