

**DETAILS OF ACCEPTED ABSTRACTS for POSTER PRESENTATION in ICESMA-24
(Poster Size: 85cm*100cm)**

Poster No.	Title	Submitted Author name
A-01	Synthesis of Cost-Effective Spinel LiMn ₂ O ₄ as a Cathode Material for Lithium-ion Battery	Durvankur Deepak Birje
A-02	Design, Simulation and 3D printing of Polymer Patch Antenna for GPS applications	Ruchita Kailas Vehale
A-03	Fabrication and Characterization of Thin-film Thermoelectric Power Generator using p-type Bi _{0.5} Sb _{1.5} Te ₃ and n-type Bi ₂ Te _{2.7} Se _{0.3} Thin Films on Flexible Substrate for Wearable Energy Harvesting Applications	Varun T S
A-04	Navigating the Recycling Landscape of Solar Waste in the Indian Subcontinent: Identifying Key Hurdles and Promising Prospects	Chinmaya Padhy
A-05	Spinel LiMn ₂ O ₄ truncated octahedrons as cathode for Li-ion battery	Ravina Ramchandra Holkar
A-06	Structural and optical properties of Ag ion implantation on (100) orientated Europium doped β -Ga ₂ O ₃ single crystals	Akshita K. V.
A-07	Synthesis of g-C ₃ N ₄ /Ti ₃ C ₂ T _x nano heterostructures for enhance photocatalytic generation of hydrogen via water splitting	Amol Bhausahab Tambe
A-08	Zinc oxide based Amperometric Phosphate ion Sensor for Soil analysis	Chandrashekhar M Ghorpade
A-09	Luminescence Properties of Low-Defect h-BN for Quantum Applications	Shantanu Saha
A-10	Studies on Physicochemical characterization of Si and Ag Ion implanted β -Ga ₂ O ₃ Single crystals	Hariharan R
A-11	Carrier and phonon transport properties of Ge and Ag co-doped p-type Mg ₃ Sb ₂ nanostructure for thermoelectric application	Priyadharshini S
A-12	Supercapacitor Based Self Powered Flash Light for Remote Application	Stanly Jacob K
A-13	Development of Highly Flexible/ Bendable Lithium-ion Full Cells for Wearable Electronic Gadgets	Laxman Dnyaneshwar Kaulage
A-14	Role of 200MeV Ag ⁺¹⁵ swift heavy ion irradiation induced defects across mixed valent manganite based thin films	Apexa Maru
A-15	Effect of Sintering Temperatures on the Structural, Morphological, Optical and Electric Properties of Zinc Oxide	Himitri Trivedi
A-16	Synthesis of TiO ₂ /SnS ₂ Coupled Semiconductor Nanostructure for Efficient Photocatalytic Hydrogen Generation Activity	Niteen Sahebrao Jawale
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A-18	NiO _x thin film Synthesis by simple solution method for DSSC application as a Pt free counter electrode	Pallavi Arun Dudhalkar
A-19	Development of Transition Metal Oxides as Cathode for Sodium-ion Batteries	Sonali Anil Mahapure
A-20	A facile composite NASICON Solid-State Electrolyte with enhanced Ionic Conductivity	Sonali Anil Mahapure
A-21	High Power Hybrid Supercapacitor for renewable energy application	Stanly Jacob K
A-22	Inkjet printed Lithium-ion flexible pouch cell for flexible electronics	Rohit Hanamsagar

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A-24	Synthesis and characterization of Bi ₂ S ₃ nanocrystals in Q-dot glass	Vijay B Autade
A-25	3D-Printed Lithium-ion Batteries Fabricated using Direct Ink Writing (DIW)	Shubhangi H. Supekar
A-26	Fabrication of ABS-ZnO NPs composite filament for fused filament fabrication 3D printing process	Chitradeep Jash
A-27	Polymer-Ceramic Composite Filaments for Fused Filament Fabrication 3D printing Technique	Dhananjay Mali
A-28	Enhanced Solar Conversion Efficiency in Dye-Sensitized Solar Cells: Superior Performance of BaTiO ₃ Perovskite-Loaded Reduced Graphene Oxide Photoanode	S. Alex Pandian
A-29	Graphene-based Microstrip Antenna for Communication	Amal Krishna A B
A-30	Transparent Conductive Films with Vanadium Pentoxide layer for Enhanced Infrared Sensor Applications	Geevarghese V. Jacob
A-31	Simulation and Experimental Studies on Microstrip Patch Antenna for Communication	Nikhil O.
A-32	Semiconducting Metal Oxide Nanostructures Derived from Carbon Nanofiber for Gas Sensing Application	A. Ramesh
A-33	Carbon Nanofiber-based Electrode Material for Supercapacitor Application	Aiswarya Murali
A-34	Fabrication of smoke sensor with fast response and low hysteresis	Joyel
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A-37	Surface Modification of LNMO Cathode Material for Lithium-Ion Batteries	Athira K
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A-39	Development of Ionophore Based Electrochemical Ion Selective Electrode for Nitrate Ion Sensing	Theertha Sunil
A-40	Potentiometric Determination of Monohydrogen Phosphate Ion selective Electrode for Real Time Monitoring	Ashmi Rappai
A-41	Reduced Graphene Oxide-Polymer Composite Based Resistive Soil Moisture Sensor	Amal A G
A-42	Layered GO Deposition with Interfacial Reduction for Flexible Transparent Piezo sensitive Electrodes	Sreekumar E B
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A-48	Fabrication of ZrO ₂ Nanocomposite for water purification	Sachin Balkrushna Jadhav
A-49	Synthesis and Characterization of Pd-loaded WO ₃ onto NTC for Gas Sensing Application	Unnimaya K S
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A-54	Design of a low power, low error 4-20mA current loop circuit for sensor signal transmission	Judson Antu
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A-56	CoFe@CN metal-organic framework as cost-effective platinum-free efficient counter electrodes for dye-sensitized solar cells	Saranya V
A-57	Design and Development of Shear Mode Acoustic Resonator for the Liquid Sensing Application	Raju Patel
A-58	Valorization of Glycerol to Solketal, A Fuel Additive over Acidic Zeolites	S. Yadaiah
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A-62	Preparation, characterization and photocatalytic studies of cation(Ag ⁺) and anion(N ₃ ⁻) doped K ₂ Zn(PO ₃) ₄	Radha Velchuri
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A-66	Experimental Investigation of mc-Silicon Wafers: Machine Learning for Optimizing Wafers Quality	M. Srinivasan

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A-68	Purification of Hafnium Sponge by Electron Beam Melting for Sputtering Targets	Narendar Nasani
A-69	Enhancement of unidirectional heat extracted by the Zirconium sheet placed at the side retort in the DS system for PV application: Numerical simulation	Periyannan P
A-70	Extracting Metal Impurities from Silicon Kerf Loss through Sonifier- Assisted Acid Leaching Process	Bharathwaj M
A-71	Recycling of Rare Earth Elements (REEs) from end of life NdFeB based Permanent Magnets as an urban ore under circular economy	U. Ram Babu
A-72	Recovery of IC chips from assembly of spent lithium-ion batteries for their secondary use in different applications	Ajay Kaushal
A-73	Fabrication of Mesoscopic Rudorffite Solar Cells using Lead-free Silver Bismuth Iodides	R. Govindaraj
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