

Poster Presentation Schedule

22nd December: 5:20 pm to 6:30 pm

Code	Title
PP 01	Scalable Preparation of High-Quality Graphene for Binder-Free Flexible Supercapacitors Irshad M. K.
PP 02	Metal Hydroxide Based High-Energy Aqueous Supercapacitor Madeshwaran Mohanraj
PP 03	Less-Defective Graphene as Electrode Material for Flexible All-Solid-State Supercapacitors Divya P.
PP 04	Electrochemical Investigations on Ionic Liquid for Energy Storage Applications Ashifa M. S
PP 05	Cobalt Doped Tin Oxide Nanoparticles an Effective Catalyst for H ₂ Evolution Reaction Riya E. Sajan
PP 06	Visible light driven Water Activation Sensitized by Vanadium based Molecular Photoanodes Arifa K. V.
PP 07	ReSe ₂ Based Electrocatalyst for Hydrogen Evolution Reaction Teena T.
PP 08	Turbostratically Aligned Graphene Sheets via an Environmentally Benign Ball Mill Method for Supercapacitor Applications Suchitra V. Chandran
PP 09	Low-Temperature Solvothermal Growth of Co _x S _y Nanospheres on Conducting Substrates as Efficient Electrodes for Hydrogen Evolution Reaction Nabeel N. Abu
PP 10	Fluorine-Free Synthesized Tantalum Carbide (Ta ₂ C MXene) as an Efficient Electrocatalyst for Water Reduction and Nitro Compound Reduction Vijayprabhakaran A.

- PP 11 Tuning of Metal Grafted BiVO₄ Photoelectrodes for Solar Fuel Production
Haritha A.P.
- PP 12 Three-Dimensional Porous Graphene Network as Anode Material for Asymmetric Supercapacitor
Suvarna K. Subrahmaniana
- PP 13 Eggshell Powder- PVA Composite Based Triboelectric Nanogenerator; An Energy Harvest from Residual Waste
Hisna P. A.
- PP 14 Cobalt Hydroxide Based High-Energy Aqueous Supercapacitor
Abhishek Krishnamoorthy
- PP 15 Role of NiO Nanostructures in the Enhanced Hydrogen Storage Properties of Oxidized Lithium Borohydride
Ajaijawahar K.
- PP 16 Studies on Structural, Morphological, and Electrochemical Properties of Pristine and Co Doped Cr₂O₃
Sandra P. Nair
- PP 17 Innovative Bottom-Up Synthesis of Iron Oxide-Carbon Hybrid Materials for Enhanced Electrochemical Performance
Nithya C. S.
- PP 18 Fabrication of Scalable Pigmented Superhydrophobic Coatings for Self-Cleaning Applications
Athira Suresh
- PP 19 Polyaniline/Graphene Nanocomposites Preparation via a Green Strategy and Application as Supercapacitor Electrode Materials
Chandni A. Parambath
- PP 20 Preparation of Diverse Stable MOFs and their Electro Catalytic Capabilities towards Desulfurization, Water Splitting and various Nitrophenol Reduction
Manivannan Mahendran
- PP 21 Discovering the Interaction Profile of Camptothecin Functionalised Silver Nanoparticles with ctDNA: Multi- Spectroscopic and Calorimetric Approach
Aparna R.

PP 22 From Nanoscale Precision to Macroscopic Impact: Self-Assembled Nanoclusters and Luminescence-Driven Device Fabrication

Rival Jose V.

PP 23 Enhancing the Stability and Reusability of Ag_3PO_4 Nanoparticles by Introducing a Thin Silica Shell

Kavya P.

PP 24 Structural, Morphological, and Antioxidant Studies of Green Synthesized Gold Nanoparticles Using *Trichopus Zeylanicus* Leaf Extract

Aparna V. M.

PP 25 Precision Nanocluster-Based Toroidal and Supertoroidal Frameworks Using Photocycloaddition-Assisted Dynamic Covalent Chemistry

Lakshmi K. Murali

PP 26 Study of the Effect of Silver Nanoparticles in Methylene Blue Sensitized Poly Vinyl Alcohol-Acrylamide Photopolymer for Holographic Applications

Jincy S.

PP 27 Controlling the Oxidation States of Transition Metal Ion Dopants in ZnS Quantum Dots: A Focus on Vanadium

Neera R. M.

PP 28 A Comparative Study on the Antibacterial Properties of Zinc Oxide Nanoparticles Synthesised through Chemical and Biological Route.

Vishnu K. Kumar

PP 29 Fe^{3+} Induced Antibacterial Efficacy of Spherical Flower-like CuO Nanoparticles with Enhanced Structural and Optical Properties

Anitha T. V.

PP 30 X-Band Electromagnetic Interference Shielding Application of PVA-MWCNT-BaTiO₃ Metacomposites with Tuned Negative Permittivity

Swetha P.

PP 31 Ti-N-C Bonded Close Coupled TiO₂/G-C₃N₄ for Rapid Degradation Of Cationic Dyes from Multi-Dye System by Persulfate Activation

Shalini V.

PP 32 Catalytic Reduction of Methylene Blue using Poly-o-phenylenediamine- Silver Nanoparticle Composite

Abhishek K. Ramesh

PP 33 Enhanced Thermoelectric Performance of Cu₂Se/ZnSe Composites through Band Convergence and Carrier Optimization

Parvathy T.

PP 34 Electrical and Optical Characterization of CuZnS Thin Films Prepared by Chemical Bath Deposition Method

Preetha K. C.

PP 35 Structural and Optical Properties of Y-Doped ZnS Nanoparticles

Muhammed J. E.

PP 36 Growth, Characterization and Dielectric Investigation on Crystalline Zinc Mandelate

Vineetha V. S.

PP 37 Spectroscopic Properties of Sr_{1.0}Ca_{2.0}B₆O₁₂:0.5Sm³⁺

Sunil Thomas

PP 38 Dielectric and Conductivity Investigations on Sodium Zeolite Incorporated Polymer-Nanocomposites

Binesh M.

PP 39 Device Grade Spray-Coated Transparent Conducting Thin-Films

Adithya R. Nath

PP 40 Enhanced Thermoelectric Power Factor of Nickel Ferrite Incorporated Zinc Oxide for Waste Heat Retrieval

Hashir P.

PP 41 Evaluation of Optical, Thermal, Electrical and Gas Sensing Properties of Poly(pyrrole-co-indole)/Copper Alumina Nanocomposites

Sankar S.

PP 42 Selective Detection of Biologically Relevant Ions and Molecules by Pillar[5]arene Derivatives in Water Milieu

Marzoq A. Aldharhani

PP 43 Exploring Phase Transition-Driven Self-assembly of Poly(aryl ether) Dendron Derivatives for Sustainable Materials

Rahul Mahashaya

PP 44 Facile Synthesis of Fe₃O₄ Nanoflake Array on Iron Foil for Supercapacitor Application

Swathy Mohanan

PP 45 Hydrogen Gas Sensors Based on Nano Pt Functionalized Endoped Carbon Nanofibers with Induced Mesoporosity

Divya Sreetha Murugan

PP 46 Imidazole based Highly Selective “Turn-Off” Fluorescent Chemosensor for Iron(III) Ions Detection and Biological Applications

Praveena R.

PP 47 Oxalamide-Based Sensor for Detection of Cu²⁺/Fe³⁺ Ions and its Application in Live Cell Imaging

Parvathavarthini M.

PP 48 Multi-stimuli-responsive Chromogenic Systems for Smart Applications

Sruthi S. Nair

PP 49 Analyte Selective Oxidative Fluorescence Sensing in Poly-N-phenyl anthranilic acid-co-poly-o-phenylenediamine Copolymer

Anjana I.

PP 50 Synthesis, Structural Characterization, and NLO Studies of Metal-Complexed Iminium Phosphoryl Groups

Shibil S.

PP 51 Black Color Electrochromism in Terpyridine-based Metallosupramolecular Assemblies

Anisha M.

PP 52 Successive Detection of Zn²⁺ and PA Using a Schiff Based Fluorescent Sensor Derived from 2-Hydroxy-1-Naphthaldehyde

Muhammed A.

PP 53 Theoretical Screening into Urea-Based Receptor as A Promising Toxic Gas Sensor Upon SO₂, NH₃ and H₂S

Gopika Krishnan G. S.

PP 54 Metal-Organic Coordination Compound: Probing Electrical and Geometrical Properties through Spectroscopic Analysis

Krishna B. Kurup

- PP 55 Predictive Modeling of MAO-B Inhibitory Compounds: A Machine Learning-Enhanced QSAR Analysis
Jalala V. K.
- PP 56 A Theoretical Exploration of the Antioxidant Activity of Hibiscetin Using DFT, NCI, AND QTAIM
Ragi C.
- PP 57 Investigations on Phenylisothiocyanate by FT-IR, FT-Raman, NMR, UV-Vis Spectroscopy, HOMO-LUMO, MEP, and NLO Properties Using Density Function Theory Analysis: A Potent Antimicrobial Compound
Saifunnisa T.
- PP 58 A Theoretical Analysis of Ti-based 2D-MXenes as HER Catalyst
Shrestha D.
- PP 59 Jackfruit Pectin-Chitosan Polyelectrolyte Coated Microcapsules
Sasina Sai O. K.
- PP 60 Synthesis, Characterization, and Photophysical Analysis of Meso-Aryl Substituted Porphyrins: Unveiling Potent Antibacterial Photodynamic Activity
Kannan Subburaj
- PP 61 Production and Spectroscopic Investigation on Nucleation of Metal Oxide Nano Crystals and their Response in the Production of Anthraquinones in In Vitro Cultures of *Rubia Cordifolia* L.
Aparna P.
- PP 62 Structural and Thermal Characterisation of Bacterial Cellulose Produced by *Novacetimonas Hansenii* in Static Culture Condition
Neelima S.
- PP 63 Extraction and Characterization of Cellulose Derived from Peanut Shell
Shana Jebin V. P.
- PP 64 Poly-N-phenylanthranilic acid Fluorescent Polymer Dye for Cell Imaging and Secret Writing Applications
Rohini K. Das
- PP 65 Tuning Luminescence, Mechanical Flexibility, and Transport Properties in Single Crystals of Thiazolothiazole Derivatives
Madhubrata Ghora

PP 66 Mitigation of Mild Steel Corrosion in HCl Media Using the Leaf Extract of a Common *Perennial Leguminous* Plant

Anila P.

PP 67 Synthetic Access to 1,3-Butadiynes via Electro-redox Cuprous Catalyzed Dehydrogenative C_{sp}-C_{sp} Homocoupling of Terminal Acetylenes

Krishnan M.

PP 68 CO₂-induced Glassification as a Green Method for the Preparation of Sustained Release Drug-Excipient Composites

Hanna M. A. Ameena

PP 69 Synthesis and Characterization of Ytterbium Molybdate Nanoparticle Modified Glassy Carbon Electrode for the Electrochemical Determination of Theophylline

Krishnan. M.

PP 70 Fluorescent Trigonal Selenium Quantum Dots for Optical Sensing of Artificial Food Colorant

Manjusha R. Jose

PP 71 Enhanced Adsorption of Ciprofloxacin Antibiotic using Graphene Oxide Activated Carbon Composite: Synthesis, Characterization, and Performance Evaluation

Aruna U.
