

Oral Presentation Schedule

21st December: 4:30 pm – 6:30 pm (**OP 01 to OP 24**)

22nd December: 4:40 pm - 5:20 pm (**OP 25 to OP 32**)

Presentations will take place in three parallel sessions

Code	Title
OP 01	Crafting Highly-Porous Hexagonal 3D Carbon Structures for Energy Storage Application Aswini Ramakrishnan
OP 02	Polyaniline-based Biomimetic Self-sensing Supercapacitor Athira Ajayan
OP 03	Supercapacitive Performance Analysis of Nickel Disulfide Electrode in Li ₂ SO ₄ Electrolyte Susmi Anna Thomas
OP 04	Investigation on Structural, Morphological, and Electrochemical Performance of La ₂ FeMnO ₆ Double Perovskites Anipriya M. A.
OP 05	Enhancing Interplanar Spacing in V ₂ O ₃ /V ₃ O ₇ Heterostructures to Optimize Cathode Efficiency for Zn-Ion Batteries Tharani S.
OP 06	Unveiling the Potential: Black Zinc Oxide as a Pioneering Material for Supercapacitor Innovation and Electrochemical Investigations Shalini Shanmuganathi
OP 07	Unlocking Specific Capacitance of Morphology Controlled MnO ₂ and its Functioning in High Energy Asymmetric Supercapacitor Sai Prem Shaji
OP 08	Fabrication and Characterization of Lead-Free, Air Stable Cs ₂ SnI ₆ Thin Films Anjana Nair V. J.
OP 09	Spontaneous Curvature Induction in an Artificial Bilayer Membrane Drishya Elizebath
OP 10	The Effect of 3d Atoms in 2D Single Molecule Magnets Greeshma R.

OP 11 Self-assembly of Some Amphiphilic Azo-Cardanol Compounds: Gelation and Liquid Crystalline Properties

Manoj Mathews

OP 12 Electronic Structure and Electric Field Response in Twisted Double Trilayer Graphene: Theory and Experiment

Anooja Jayaraj

OP 13 Origin of Low Lattice Thermal Conductivity through Micro-Structural Defects in Ni Substituted Bi_2S_3 for Enhanced Thermoelectric Performance.

Karvannan E.

OP 14 Nonlinear Optics in Metal-organic Complex through Hyperpolarizability and Sum Over States Analysis

Saji Chandran

OP 15 Magnetoresistance and Enhanced Thermoelectric Performances in Ni-Mg Dual Cation Doped CuCrO_2 Crystallites

Jamshina Sanam P. K.

OP 16 Thermal Response of Double-Peak Nematicons in a Periodic Potential

Sajitha N. M.

OP 17 Facile Metal Catalyzed Low-Temperature Synthesis of Magnetic N-Doped Carbon Nanotubes (N-CNT)

Shemeena M.

OP 18 Enhanced Antibacterial Activity of Gd Doped ZnO Nanoparticles Synthesised by Coprecipitation Method

Bivitha T. K.

OP 19 Synthesis and Characterization of Pure ZnO Nanoparticles and 2D: ZnO Nanocomposites & Comparative Analysis of their Properties

Mary Lukose

OP 20 Luminescent Metal Organic Framework Based Sensor for Selected Pharmaceutically Active Compounds

Arundhathy J.

OP 21 Rapid and Sensitive Surface Enhanced Raman Spectroscopy Detection of Melamine Using Silver Nanoparticles Anchored Hexagonal-Boron Nitride Nanofibers

Navami Sunil

OP 22 Silver Supported Multi-walled Carbon Nanotubes based SERS Substrates for the Detection of Sulfate Ions in Water Residues

Rajesh Unnathpadi

OP 23 Synthesis, Characterization, and Metal Ion Recognition Properties of A Triazole Linked Schiff Base Derivative of Pillar[5]Arene

Ameer Ali

OP 24 Luminescence Enhancement and Stark Splitting Studies on Li Co Doped $Gd_2O_3:Eu^{3+}$ Micro Phosphors

K. M. Riyas

OP 25 Arsenic Detection Unveiling the Potential of Potentiometric Sensors

Anjana K. R.

OP 26 Controlled Synthesis and Engineering of One-dimensional Titanium Dioxide Nanofiber for Water Purification

Pooja P. Sarngan

OP 27 Harmonizing Adsorption, Kinetics, and Ultrasound-aided Sonocatalysis for the Removal of Congo Red from Aqueous Solution Using CuS Nanoflakes

P. Sravandas

OP 28 Effect on the Orientation Angle of TiO_2 with Tin Porphyrins Containing One and Many Anchoring Groups in MCSS for Water Splitting

Reshma J.

OP 29 Platinum-Grafted Twenty-Five Atom Gold Nanoclusters for Robust Hydrogen Evolution

Mymoona Paloli

OP 30 A Novel TPA-Based Dendritic Organic D- Π -A Dye for High Performing Indoor Photovoltaic DSSC.

Ramees Jebin P.

OP 31 Synthesis of Efficient Bi-anchoring Phenothiazine Derivatives for Dye-Sensitized Solar Cells

Saranya P. K.

OP 32 Thermoresponsive Metal-Organic Hybrid for Multistate Logic Gate and Smart Window Applications

Anjali Nirmala
