



**International Conference on Metal-Organic Frameworks and  
Porous Organic Polymers for Energy and Sustainability  
(MOFES'26)**



**Poster Presentations: Day 3, 14-01-2026**

**Venue: SSL Foyer and SAMat Building, JNCASR**

**Chair of the Poster Session: Prof. Rajeswara Rao M (IIT Dharwad) & Dr. Arijit Mallick (Jawaharlal Nehru University)**

<b>P97</b>	Mebin Varghese	Morphology Tuned Viologen-Based Covalent Organic Frameworks: A Fast and Targeted Approach to Eliminate Toxic Organic Pollutants from Water
<b>P98</b>	Mala Pamei	Environmentally Benign Sonochemical Route to Cobalt metal-organic framework for Sensitive Phosphate Detection
<b>P99</b>	Million Mulugeta Habtegebrel	MOF-derived Mesoporous CeO <sub>2</sub> /CdS-x composite for enhanced photocatalytic hydrogen evolution
<b>P100</b>	Mohammad Azhar Hasan Ansari	Dual electronic and Li <sup>+</sup> ion conducting Ytterbium-Hexaazatrinaphthalene MOF as high performance anode for Li <sup>+</sup> ion batteries and its carbon nanotube composites
<b>P101</b>	Monisha Arumugam	Rare-Earth Based Metal-Organic Frameworks using aliphatic acid linker as Multifunctional platforms for the biological and catalytic applications
<b>P102</b>	Monojit Roy	Xantphos-Cu-Decorated Covalent Organic Frameworks for C-H Arylation through Sensitized Electron Transfer
<b>P103</b>	Mouli Das Dawn	MOFs to Next-Generation Energy Devices: Engineering Nanocomposites, Mixed-Matrix Membranes, and Thin Films
<b>P104</b>	Soumya Kanti Mondal	Cluster Metalation and Post-Synthetic Pore Modification of MOF-808 towards Photocatalytic CO <sub>2</sub> Reduction to Ethanol
<b>P105</b>	Nallamalla Sujith Benarzee	A Flexible Ternary COF@MWCNT-MXene Flexible film for Synergistic Hydrogen sensing at Room Temperature
<b>P106</b>	Nayan Sarkar	Lead Free Perovskite Infused MOF-based Aerogel Composite for Photocatalytic C(sp <sup>3</sup> )-H Bond Activation
<b>P107</b>	Neha Luhakhra	Wide range photoabsorption of PPy/g-CN for photocatalytic hydrogen production
<b>P108</b>	Pampa Jhariat	Hydroxide Ion Conduction through Viologen-based Covalent Organic Frameworks (vCOFs): an Approach towards the Advancement
<b>P109</b>	Neha Saini	Sulfone-Functionalized Covalent Heptazine Polymeric networks for Selective CO <sub>2</sub> Photoreduction in Water: Mechanistic Insights into Sacrificial Donor-Dependent Selectivity

<b>P110</b>	Nilojyoti Sahoo	Salphen-Functionalized Conjugated Microporous Polymer Enabling Dual-Mode Cu <sup>2+</sup> Sensing and Tandem Cysteine Capture
<b>P111</b>	Nissar Hussain	Expedited Electrochemical Activation of Cobalt Metal-Organic Frameworks via Undercoordination Chemistry for Robust Bifunctional Electrocatalytic OER and HER
<b>P112</b>	Nitesh Kumar Das	MOF based Immunosensor For Ferritin
<b>P113</b>	Paltu Kumar Giri	Designing functionalized Metal-Organic Frameworks for C–H bond carboxylation to produce valuable compounds by the utilization of CO <sub>2</sub>
<b>P114</b>	Pankaj Kumar	Buffer pKa dependent hydrogen evolution catalyzed by cobalt Bis(pyridylmonoimine) complex in water
<b>P115</b>	Partha Pratim Mondal	Site-memory-triggered reversible acronym encryption in a pore-partitioned MOF for ultrasensitive detection of organic pollutant over multiple platform
<b>P116</b>	Parvez Alam Khan	Ca-Complex immobilized ZIF-8 for the conversion of CO <sub>2</sub> to methanol
<b>P117</b>	Piyush Singh	Design and Synthesis of New Ultramicroporous Zinc-Triazololate based MOFs for Selective CO <sub>2</sub> Capture
<b>P118</b>	Poornima M	Nitrogen-Rich Magnetic COF for High-Efficiency Palladium Recovery under Acidic Conditions
<b>P119</b>	Poulomi Sarkar	Photothermal catalysis-assisted mineralization of Tetracycline using novel CuFe <sub>2</sub> O <sub>4</sub> @MIL100/PDA core shell composite catalyst
<b>P120</b>	Prantik Dutta	Superprotonic Conductivity with Ultralow Activation Energy: Integration of HOF into Mixed-Matrix Membranes for Enhanced Proton Transport
<b>P121</b>	Prashant Navnath Yevale	Novel Diamide Covalent Organic Polymers (COPs) for Arresting Actinides U(VI), Pu(IV) and Am(III) from Highly Acidic Nuclear Stream
<b>P122</b>	Prasita Mazumder	Influence of Auxiliary Ligand Incorporation in Nickel-Based Metal–Organic Frameworks on Oxygen Evolution Electrocatalysis
<b>P123</b>	Praveena Ragavan	Noninvasive Portable Neurotransmitter Electrochemical Sensing Featuring MOF-Based Materials
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<b>P125</b>	Priti Bera	A Metal-Organic Framework Catalyst Facilitating Solvent-Free Transformation of CO <sub>2</sub> and Styrene Oxide into Styrene Carbonate
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<b>P127</b>	Priyanka Dobariya	Counterion-Directed Assembly of oriented 1 nm-intrinsic porous Polyoxometalate Thin Films for Precise Molecular Separation
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		Phosphotungstic Acid as an Efficient Ion Exchange Membrane for Fuel Cell Applications
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<b>P132</b>	Rajarshi Ghosh	Modulating MOF Photoresponse via Donor-Acceptor Interaction for Polarity-Based Molecular Sensing
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<b>P174</b>	Swadhin Kumar Jena	Tuning Photophysical properties of a Doner-Acceptor Covalent Organic Polymer for Visible light driven Continuous flow photoreduction of Hexavalent Chromium
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