## List of poster presenter in ICMG – III (2024)

Reg. No	Poster Number	Full Nama	Affiliation	Title
ICMG- III-P01	P01	Aathira Nair	CSIR National chemical laboratory, Pune	What leads to direct epoxidation? An exhaustive DFT investigation of electrophilic oxygen mediated epoxidation of ethylene on Ag(100)
ICMG- III-P02	P02	Amaze Mathe	Vignan's Foundation for Science, Technology & Research, Guntur	Computational Investigation of the Binding Affinity of 7,9- Di-tert-butyl-1- oxaspiro[4.5]deca-6,9- diene-2,8-dione with Cyclooxygenase Enzymes: A QM/MM Study
ICMG- III-P03	P03	Anamika Roy	Charuchandra College, Kolkata; St. Xavier's College, Kolkata	Studying dynamics of collective motion from topological perspective
ICMG- III-P04	P04	Anju Rajan	NIT Calicut	First-principle investigation of Janus SnSSe as a promising material for NO, NO <sub>2</sub> and NH <sub>3</sub> gas sensing.
ICMG- III-P05	P05	Archan Ravi Sankar	PhD, VIT University, Chennai	A Computational Study to Determine the Role of σ- Hole in nido-Heteroborane Binding Capabilities
ICMG- III-P06	P06	Ashok Singh	Indian Institute of Technology Indore	Synergistic Niobium Doped Two-Dimensional Zirconium Diselenide: An Efficient Electrocatalyst for O <sub>2</sub> Reduction Reaction
ICMG- III-P07	P07	Asif Iqbal	SRM University AP, Andhra Pradesh	C <sub>2</sub> product formation over C <sub>1</sub> product and HER on 111 plane of specific Cu alloy nanoparticle identified through

				multiparameter
				optimization
ICMG- III-P08	P08	Atish Kumar Sharma	P.G. Department of Physics, Samastipur College, Samastipur- 848134 (A constituent unit of L.N.M.U. Darbhanga-846004), Bihar, India.)	Comprehensive impedance and admittance spectroscopic investigation of MoS <sub>2</sub> -solar cells with exclusive Zn <sub>3</sub> P <sub>2</sub> as HTL and least lattice mismatches
ICMG- III-P09	P09	Ayusmin Panda	IIT Madras	Enhancement of Quantum Efficiency in Perovskite Solar Cells through Whispering Gallery Modes from Titanium Oxide Micro-resonators
ICMG- III-P10	P10	Babuji Dandigunta	Indian Institute of Technology, Madras	α-Graphyne with Ultra- low Diffusion Barriers as a Promising Sodium-ion Battery Anode: Ab-initio DFT and MD Studies
ICMG- III-P11	P11	Deeksha R	M.S. Ramaiah University of Applied Sciences	Unveiling the Synergistic Performance of Double- atom Transition Metal Incorporation in Graphitic Surfaces as Electrocatalysts
ICMG- III-P12	P12	Dr Thulasi Bikku	Amrita Vishwa Vidyapeetham	Improved Quantum Algorithm: A Crucial Stepping Stone in Quantum-Powered Drug Discovery
ICMG- III-P13	P13	Dr. Charan Kuchi	Madanapalle Institute of Technology and Science, Madanapalle, 517325, India.	Synergistic MoS <sub>2</sub> -TiO <sub>2</sub> Nanocomposite for Efficient H <sub>2</sub> Evolution, Dye Degradation, and Supercapacitor Applications
ICMG- III-P14	P14	Dr. Jagadish Chandra Mahato	Siksha Bhavana, Visva Bharati, Santiniketan- 731235, West Bengal, India	Unveiling the potential of two-dimensional V <sub>2</sub> S <sub>2</sub> monolayer as a high- performance anode material for metal-ion batteries: A first-principles study

ICMG- III-P15	P15	Golam Rosul Khan	IIT Patna	What is the viscosity of liquid water confined in a hydrophobic nanotube? Estimation using a novel approach
ICMG- III-P16	P16	Himani Joshi	Indian Institute Of Technology, Indore	Unveiling the Electrocatalytic Activity of Cobaloxime Metallolinker in UU- 100(Co) Metal-Organic Framework towards H <sub>2</sub> Evolution Reaction: A DFT Study
ICMG- III-P17	P17	Ishita Ghorai	IIT Mandi	Quantum monodromy in effective polyad breaking Hamiltonian
ICMG- III-P18	P18	Jesni M Jacob	SRM -AP	Theoretical Insights into Impact of Solid-State Environment on hot- exciton TADF Emitter Properties
ICMG- III-P19	P19	Jishnu Sai Gopinath	National Institute of Technology Calicut	CARBONE SUPPORTED DIBERYLLIUM COMPOUNDS Be <sub>2</sub> (CL <sub>2</sub> ) <sub>2</sub> , L=NHC, PMe <sub>3</sub> , cAAC and CO A THEORETICAL STUDY
ICMG- III-P20	P20	Jose Antony V J	CUSAT	Tri-Atom Metal Cluster Decorated Nb <sub>2</sub> CO <sub>2</sub> MXene: Comparative Insights for Efficient Hydrogen Evolution Reaction
ICMG- III-P21	P21	K M Rajashekhar Vaibhava	Poornaprajna Institute Of Scientific Research	Treatment of Van der Waals dispersion forces for layered MXenes in the framework of DFT
ICMG- III-P22	P22	K. Santhy	Indus University, Ahmedabad	Experimental Investigation and Thermodynamic Reassessment of Mg-Sr- Zn Ternary System
ICMG- III-P23	P23	Karthik H J	PhD Scholar	Semiconductor to Metal transition in single and double polyyne chains

ICMG- III-P24	P24	Kushal Samanta	Indian Institute of Technology, Delhi	Atomistic Insights on FacetDependent Functional Properties in CdSe Nanocrystals
ICMG- III-P25	P25	Likun Pradhan	IIT Guwahati	Atomistic simulation studies of ion transport in NASICON using molecular dynamics simulations
ICMG- III-P26	P26	M Bhargavi	SRM University AP, Andhra Pradesh	Enriched Optical Dielectric and Magnetic Properties of Praseodymium and Bismuth substituted Yttrium iron Garnet (Pr: BYIG) nanoparticles by sol-gel Technique
ICMG- III-P27	P27	Madhavan Nampoothiri D K	Indian Institute of Science, Bangalore	Understanding the effect of O <sub>2</sub> in the growth mechanism of 2D MoS <sub>2</sub> in a chemical vapor deposition reactor
ICMG- III-P28	P28	Mahima Bhardwaj	Vignan's Foundation for Science, Technology and Research, Vadlamudi, Guntur- 522213, Andhra Pradesh, India	Prediction of significant biomarkers by network analysis for breast cancer bone metastasis
ICMG- III-P29	P29	Maneesha M	Cochin University of Science and Technology	An Understanding into the CO <sub>2</sub> Reduction on Homo and Hetero atom doped V <sub>2</sub> CO <sub>2</sub>
ICMG- III-P30	P30	Meema Bhati	CSIR-NCL, Pune	Traversing the role of nonpolar surfaces of ZnO in industrial catalysts form CO <sub>2</sub> reduction to methanol synthesis: A Periodic DFT Investigation
ICMG- III-P31	P31	Muhammed Fasil P P	NIT Calicut	Enhanced Catalytic Activity in Nb-Doped TiO <sub>2</sub> for Electrochemical Oxygen Reduction Reaction

ICMG- III-P32	P32	Narad Barman	SRM University AP, Amaravati, Andhra Pradesh	Charge contortion due to bridge oxygen vacancy in SnO <sub>2</sub> lattice manipulate the nature of N <sub>2</sub> adsorption towards a kinetically-driven ammonia electrosynthesis
ICMG- III-P33	P33	Nidhi	Delhi Technological University, New Delhi 110042	A first-principles study of the topological phase in Zintl compound KCd <sub>4</sub> As <sub>3</sub>
ICMG- III-P34	P34	Nikhil Wilson	CSIR-NCL	HYST 2.0: Analysis and interpretations of machine learning model trained on an updated database
ICMG- III-P35	P35	Nilofar Naaz	BITS Pilani Hyderabad Campus	Effect of Mn Doping on the Electrical Conduction Properties of BiFeO <sub>3</sub> Thin- Films
ICMG- III-P36	P36	Pallavi Vyankuram Chame	Department of Chemistry, Indian Institute of Science Education and Research Pune	Water dissociation on (0001) surface of α- Titanium: a first principles investigation.
ICMG- III-P37	P37	Pramod Kumar Verma	Indian Institute of Technology Madras	A Real-Time Study of Charge-Transfer Dynamics in Metal Nanoparticle- Perfluorooctaniod Acid (PFOA) and Degradation of PFOA
ICMG- III-P38	P38	Rajeev Ranjan	IISER Pune	Entropy stabilized HfZrNiCoSnSb half- Heusler alloy for thermoelectric application: a theoretical prediction
ICMG- III-P39	P39	Rakesh Kumar	Lalit Narayan Mithila University, Darbhanga -Bihar	First principle studies of novel Mg(NH <sub>2</sub> ) <sub>2</sub> and LiH for enhancing kinetics for hydrogen storage along with LiBH <sub>4</sub> as additive under the ambient condition
ICMG- III-P40	P40	Ramesh Kumar	Delhi Technological University	An ab-initio study of topological phase tuning in Zintl compound RbZn <sub>4</sub> P <sub>3</sub>

ICMG- III-P41	P41	Sai Raj Ali	Jamia Millia Islamia University, New Delhi	Unlocking the Potential of Mo <sub>2</sub> CO <sub>2</sub> MXenes for the Hydrogen Evolution Reaction via Single Atom Doping.
ICMG- III-P42	P42	Sairathna Choppella	SRM University AP, Andhra Pradesh	Non fullerene acceptors with Enhanced Photostability for Organic Solar Cells applications
ICMG- III-P43	P43	Samir Kumar Nayak	IIT Madras	Computing accurate bond dissociation energies of emerging per- and polyfluoroalkyl substances: Achieving chemical accuracy using connectivity-based hierarchy schemes
ICMG- III-P44	P44	Sangeeta	Delhi Technological University, Delhi	Exploring the Thermoelectric Potential of CsGaSb <sub>2</sub> Zintl Phase Compound: A Computational Study
ICMG- III-P45	P45	Sanjib Ray	IIT Guwahati	Role of framework flexibility and local cationic environments on oxide ion transport in Sr- doped LaFeO <sub>3</sub>
ICMG- III-P46	P46	Sourav Ghosh	SRM University AP, Andhra Pradesh	Bond Exchange Mechanism Drives Volmer-Tafel route and Electronic Descriptor to Predict HER Activity of Borophene
ICMG- III-P47	P47	Stephen .S Mathew	Delhi Technological University	The Impact of Strain on the Thermoelectric Properties of HfNBr Monolayer: A First- Principles Study
ICMG- III-P48	P48	Sudipta Roy	Department of Physics, IISER Pune	Efficient Water–Gas shift catalysts for H <sub>2</sub> O and CO dissociation using Cu–Ni step alloy surfaces
ICMG- III-P49	P49	Sushri Soumya Jena	Birla Institute of Technology and Science, Pilani	Understanding Ammonia Gas Sensing Mechanism

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ICMG-	P50	Tangudupalli	SRM University AP,	Applicability of
III-P50		Mahesh	Andhra Pradesh	Polyurethane Foam Filled
		Kumar		Thin-Walled Composite
				Columns in Structural
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ICMG-	P51	Thillaiarasi S	SRM University AP,	Enhancing Photochemical
III-P51			Andhra Pradesh	Reactivity and Large Solar
				Thermal Energy Storage
				with Polycyclic
				Heteroaromatic $\pi$ -Linkers
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ICMG-	P52	Uday Kumar	Department of	Substantial enhancement
III-P52		M	Physics, B.M.S	of thermoelectric power
			College of	factor of undoped CoSb <sub>3</sub>
			Engineering,	Skutterudites processed by
Y 63 5 5	70.7-		Bengaluru	microwave sintering
ICMG-	P53	Vivek Pandey	SRM University AP,	Longitudinal Interband
III-P53			Andhra Pradesh	Conductivity in Dirac
				Nodal Line Semimetals:
				Intrinsic and Extrinsic
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ICMG-	P54	Bodaballa	SRM University AP,	Temporal Evolution of
III-P54		Narendra	Andhra Pradesh	Avalanches in the Fiber
		Kumar		Bundle Model of
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ICMG-	P55	Diksha	SRM University AP, Andhra Pradesh	Prediction of imminent
III-P55			Andhra Pradesh	breakdown using Gini and
IOMO	D.C.C	C 1	D 1 ' /77 \	Kolkata indices
ICMG-	P56	Gunnemeda	Bsc physics (Hons)	Understanding the
III-P56		Eswar	SRM University AP,	dynamics of driven
			Andhra Pradesh	interfaces through
				disordered media is crucial
101.40	D.5.5	T7 1 1	CDMIII : 12 AP	for various systems,
ICMG-	P57	Kandalam	SRM University AP,	Understanding the effect
III-P57		Ravitheja	Andhra Pradesh	of alignment interaction on
				spatio-temporal patterns in
IOMO	D.C.O.	D 1 1 4 '	C. W	a active matter system.
ICMG-	P58	Ruhul Amin	St. Xavier's College	Fracture Networks:
III-P58		Ibne Haque		Topology, Geometry and
7.07				Evolution
ICMG-	P59	Soumyaditya	SRM University AP,	Critical properties and
III-P59		Das	Andhra Pradesh	scaling through Gini index

ICMG- III-P60	P60	Subhajit Gupta	SRM University AP, Andhra Pradesh	Viscoelastic effect on oscillation and synchronization of biological oscillators
ICMG- III-P61	P61	Tarun Ram Kanuri	SRM University AP, Andhra Pradesh	Studying the final values of inequality indexes for creep ruptures using the fiber bundle model
ICMG- III-P62	P62	Viswakannan R K	Birla Institute of Technology and Sciences Pilani, Hyderabad Campus	Critical crack length during fracture