



International Conference on  
**Modern Trends in Inorganic Chemistry 2024**  
 December 14 - 17, 2024  
 Department of Chemistry, Indian Institute of Technology Kharagpur

## Poster List

Poster Number	Name	Institute	Presentation Title
1	Amrita Maity	IACS Kolkata	Selective C-H Oxygenation with m-Chloroperbenzoic Acid Catalyzed by Cobalt(II) Complexes of Tris(pyrazolyl)methane Ligands: Evidence for a High-Valent Cobalt-Oxo Oxidant
2	Anindya Roy	NIT Warangal	IR-light-activated Thulium(III) MOF derived from Caffeic acid for stimuli-responsive antioxidant activity
3	Anish Gangopadhyay	IISER Kolkata	Single-step, Solvent-free Degradation of Lignocellulosic Biomass to Cellulose Nanospheres by a Fe-complex
4	Arif Ali Mandal	IIT BHU	Visible-light-responsive Novel Ru(II)-metallo-antibiotics with Potential Antibiofilm and Antibacterial Activity
5	Aryan Gautam	Jawaharlal Nehru University	AIE-Active Cyclometalated 2-Phenylquinoline Iridium(III) Complexes With Altering Bipyridine Ligands for the Eradication of Antibiotic-Resistant Bacteria and Biofilms
6	Atri Sen	IIT Kharagpur	Inhibitory properties of green tea polyphenols and its effects in recombinant human aromatase
7	Ayyan Ghosh	IIT Kharagpur	Enhanced Water Oxidation in a Novel Ruthenium Catalyst through Secondary-Sphere Modulations
8	Balasubramaniam Selvakumaran	National College, Trichy	Superior Cytotoxic Copper(II) Complexes Induce Apoptosis: DNA Binding, BSA Interaction and Potent DNA Cleavage Activity
9	Bristi Maina Deka	IIT Guwahati	Cu(II) complexes of pyrazole based ligands as synthetic models of copper nitrite reductase (CuNiR) enzyme
10	Deepika Chauhan	Jawaharlal Nehru University	Biotinylated Platinum(IV)-SAHA Conjugate for Tumor-Targeted Chemotherapy
11	Gayathri K	IISER Thiruvananthapuram	Synergistic activation of nitrite and thio/selenocarbonyl compounds: Insights into the biochemistry of reactive S/O/N species
12	Jayadharini J	NIT Trichy	Labile Ligand and Arene Modifications for Enhanced Cytotoxicity in Ru(II) Arene Complexes
13	Koyal Pattanaik	Pondicherry University	Phosphoester hydrolysis of biphenyl anchored di-nuclear Cu(II) pseudohalide bridged complexes
14	Liji M A	Central University of Tamil Nadu	"Enhanced cytotoxicity of ruthenium(II)-p-cymene complexes of nitro-substituted salicylimidazo[1,5-a]pyridine with triple-negative breast cancer cells"
15	Manikandan Varadhan	Central University of Tamil Nadu	Water-soluble Mitochondria Targeting Cytotoxic Copper(II) and 99mTechnetium Complexes of TPP-Appended Dipicolylamine
16	Mofijul Molla	IIT Kharagpur	Monomeric Fe(III)-Hydroxo and Fe(III)-Aqua Complexes display Oxidative Asynchronous Hydrogen Atom abstraction Reactivity
17	Nikita Pal	IIT Guwahati	Thiazolidinedione- and Triazole-based Synthetic Organoselenocyanates: Potential Anticancer Activities Against Triple-Negative Breast Cancer
18	Niva Ghosh	IIT Kanpur	Photoactive Iron Porphyrins as Potential Agents for Targeted CO Delivery
19	Prasanna R. Said	Savitribai Phule Pune University	Fe(III) and Cu(II) complexes of imidazophenanthroline derivative as fluorescent probes for nitroreductase.
20	Abhik Ghoshal	IIT Kanpur	Redox-driven Non-volatile Molecular Memory: Chemical Compositions of Different Redox Couples Control the Resistive-switching Polarity
21	Aditya Choudhury	IIT Bhilai	Influence of F-interaction on Mechanical Motion of Isostructural Zn(II) Metal Complexes Driven by Solid-State [2+2] Photoreaction
22	Amit Mondal	IIT Kharagpur	Chemical Disorder Driven Cluster Spin Glass in the Pseudo-Binary Co <sub>2</sub> Zn <sub>10</sub> .2Mn <sub>0.8</sub> : An Experimental and Theoretical Study
23	Amit Nagar	IIT Ropar	Design of framework materials for photocatalytic hydrogen generation and value-added chemical synthesis
24	Anannya Sahaw	IIT Kharagpur	A Copper(II)-Metallogel as an Efficient Heterogenous Catalyst for the Synthesis of 1,2,3-Triazoles and $\beta$ -Hydroxy-1,2,3-Triazoles under Ambient Conditions
25	Anrudh Mishra	IIT Indore	Semiconducting Copper(I) Iodide 2D-Coordination Polymers for Efficient Sunlight-Driven Photocatalysis in Dye Degradation

26	Apu Saha	IIT Kharagpur	Two-Dimensional Cu(II)-MOF with Lewis Acid–Base Bifunctional Sites for Chemical Fixation of CO <sub>2</sub> and Bioactive 1,4-DHP Synthesis via Hantzsch Condensation
27	Bhaskar Kumar Brahma	NIT Durgapur	Exploring Solvent-Driven Disorder and Magnetism: Systematic Study of Alkaline Earth Metal-Formate Frameworks
28	Bidyadhar Mahato	Jadavpur University	ESIPT Active Polycatenated Coordination Framework for Selective Detection of Al <sup>3+</sup> and Ag <sup>+</sup> Ion and Traces of Water in Less Polar Solvent
29	Bikram Pramanik	IIT Kharagpur	Chemically Stable Proton Conductive CPs, MOFs, and MHOFs
30	Chandan Sarkar	University of Kalyani	A Mixed-Valent [Mn <sup>9</sup> ] Molecular Cluster as Bifunctional Electrocatalyst for Water Splitting
31	Chinmoy Das	IIT Kharagpur	Variation of the Cooperativity in Fe(II)-based Spin-crossover Solids: Influence of Composition and External Stimuli
32	Deepak Kumar	IIT BHU	Optically Transparent Al <sub>2</sub> O <sub>3</sub> Layer on BiVO <sub>4</sub> Improves Photoelectrochemical Semidehydrogenation
33	Diotima Bhattacharjee	Jadavpur University	Multi stimuli responsive soft dynamic organic crystals
34	Eshika Mahanty	Sidho-Kanho-Birsha University	Mitigation of As <sup>III</sup> /V from contaminated aqueous solutions using 3D Rod-like Bimetallic MOF Synthesized via Solvothermal Route
35	Gawade Narayan Umesh	BITS Pilani Goa	Electropolymers of porphyrins on nanomaterials: Energy and sensing related applications
36	Girija Shankar Jena	IIT Kharagpur	A facile synthesis of plasmonic Bi <sub>2</sub> WO <sub>6</sub> /Ag/CuS ternary nanocomposite for photodegradation of tetracycline and photoreduction of Cr (VI)
37	Janaki Behera	IIT Kharagpur	Variation in Catalytic Efficacies of a 2D pH-Stable MOF by Altering Activation Methods
38	Jyotiranjana Mishra	CSIR-CSMCRI	Co-Ti Bimetallic Complex-Induced Phase Modulation of Co@Black TiO <sub>2</sub> for Catalytic Hydrogenation of Cinnamaldehyde
39	Jyotirmoyee Saikia	Dibrugarh University	Access to Quinolines through Acceptorless Dehydrogenative Coupling using Tea-waste derived Hetero-nanostructured Ir-ZnO Catalyst
40	Kharabe Laxman Sarjerao	IIT Indore	Heteroleptic Cu(I) Complex with Vapochromism and its Application as Electrochromic Material
41	Kishore	Pondicherry University	Simple N, S donor functionalized Co(II), Ni(II) and Cu(II) complexes as electrocatalyst for on-site hydrogen peroxide production via two electron oxygen reduction
42	Krishnendu Buxi	IIT Kharagpur	Key Role of Positional Disorder and Soft Structural Framework for Lowering the Thermal Conductivity of Quaternary Ag <sub>1-x</sub> Cu <sub>3+x</sub> TiSe <sub>4</sub> (0 ≤ x ≤ 0.8) System to an Ultralow Limit
43	Kurakula Uma	IIT Bhilai	Photoreactive Zn(II) Coordination Compounds: Exploring Biomimetic Mechanical Motion and Photosalient Behavior
44	Kushal Dubey	IIT Bhubaneswar	Exploring Twisted Donor Acceptor Architectures: Photophysical Properties and Computational Insights into Thermally activated delayed fluorescence Systems
45	Lakshmi Priya S	University of Hyderabad	A Unique Vapor-Liquid Interface Reaction Leading to the Isolation of Mo-36 Polyoxometalate Cluster: Electrocatalytic Hydrogen Evolution
46	Ligang Pampi	IIT Guwahati	Phase Transformation of Calcium Carbonate from Calcite to Vaterite in the Presence of Comfrey ( <i>Symphytum officinale</i> ) Using Simple Precipitation Method Across Different Media
47	Abhishek Nair	IIT Delhi	Exploring the Synthesis of $\mu$ -Aminodiborane from Ammonia Borane Using Lewis Acids: Application in Amide and Ester Reduction
48	Farsana A	IISER Tirupati	Bonding, and Reactivity Studies of Donor-Base-Stabilized Phosphaborenes (PB), and Bis-Phosphinidenes (P <sub>2</sub> ): Novel Computational and Experimental Approaches Towards Metal-Aromatic Complexes
49	Gargi	Philipps-University Marburg	Single, Double, and Triple Insertion of Carbon disulfide into the Molecular Bi-N Bond
50	Kammala Gangajala	University of Hyderabad	Exploring Pro-Ligand Reactivity with 3d and 4f Metal Ions
51	Shrabani Khan	University of Western Ontario	Incorporation of Phosphenium and Phosphadiazonium Cations into N-donor Pyridylhydrazonide Heterocycles
52	Vasu Malhotra	TIFR Hyderabad	Cross-Coupling of Carbodicarbene: Synthesis of Electron-Deficient Diradicaloids
53	Velpula Pramod	University of Hyderabad	Exploring Pro-Ligand Reactivity With 3d and 4f Metal Ions
54	Achena Saha	IIT Indore	Ru(II)-pNHC Pincer Complexes with mono- and bis-protic-CNC ligands: Synthesis, Characterization, and Catalytic Activity in N Alkylation of Amine
55	Aiswarya Janardhanan	Bharathiar University	Mononuclear Mn (IV) complexes: Efficient Electrocatalysts for driving Hydrogen Evolution Reaction
56	Anjima T L	NIT Calicut	Air Stable Iron(III) Salen Complexes for Selective Hydroboration of Ketones and Un-Activated Imines Without Base Activation

57	Anjitha J	NIT Calicut	Unsymmetrical Ru(II)-NHC Complexes for Catalytic Transfer Hydrogenation reactions; Impact of Proximal Trifluoromethyl group Interaction and Effective N- coordination
58	Anvay Pareek	IIT Madras	Bio-Inspired Chalcogenate Bridged Heterodinuclear Complexes for Electrocatalytic Hydrogen Production
59	Arup Samanta	IIT Guwahati	Dual activation of Zn-catalyst assists C-C bond formation reactions
60	Ashok Kumar	IIT Kharagpur	Synthesis and Structural Characterization of Nickel and Palladium Thiolate Complexes Supported by NHC bis(phosphine) Pincer Ligand: Catalysts for Hydrosilylation and Hydroboration reactions
61	Avinash Chaurasia	Banaras Hindu University	One-pot synthesis of a series of cyanuric chloride substituted organoselenium species for the remediation of mercury and lead ions
62	Binoy Ghosh	Jadavpur University	Dual catalytic activity of arene-ruthenium-nitrosophthalate complex towards transfer hydrogenation of aldehydes and hydration of nitriles
63	Debashis Jana	Jadavpur University	One-pot cascade [3 + 2 + 1] annulation: synthesis and mechanistic insight of s-triazines and pyrimidines using azo-supported metalloradical nickel catalyst
64	Devadkar Ajitrao Kisan	IIT Hyderabad	NHC-Zn alkyl catalyzed cross-dehydro-coupling of amines and silanes
65	Devangana Das	Pondicherry University	Self-assembly of Manganese(I) based NN $\pi$ SS Bis-chelated Homo Bimetallic Metallacycles: Synthesis, Spectral, Structural characterization and Cytotoxicity studies
66	Gaurab Ganguly	University of Vienna	Marcus Theory Insights into the Challenges of Using Iron (Fe) as a Replacement for Ruthenium (Ru) in Molecular Solar-Thermal (MOST) Fuel
67	Ishita Paul	IIT Hyderabad	Mononuclear Aluminum Complexes as Precursors for Cyanosilylation of Carbonyl Compounds
68	Jyothi Jangir	IISc Bangalore	Hybrid Catalysts for Reversible Hydrogen Storage in Liquid Organic Hydrogen Carriers (LOHCs)
69	Leya Elsa George	IISER Kolkata	Unraveling the role of a B(OH) <sub>3</sub> byproduct in a baseless Chan-Lam Amination reaction
70	Maksood Alam	IISER Berhampur	Pyridyl Groups-Anchored NNC Hybrid Ligands; Synthesis, Structures, Use of their Metal Complexes in A <sub>3</sub> -Coupling Reactions
71	Manali Mohite	IIT Bombay	Functionalized phosphines: Synthesis, transition metal complex and catalytic applications
72	Misba Siddique	IIT Madras	Systematic Approach Towards C-C/-N Bond Formation Using Carbon Dioxide and Alcohol by Employing Cobalt-NHC Complexes
73	Mugesh B	Bharathiar University	HYDROGENATION OF RIGID ALKENES CATALYZED BY RUTHENIUM(II) COMPLEXES
74	Naveen Kumar	IIT Indore	Synthesis, characterization, and electrochemical studies of Ruthenium NHC Complexes with proton-responsive ligands
75	Nitumoni Hazarika	IIT Guwahati	Carboxylic Acid-Assisted Synthesis of $\pi$ -Extended Imidazo[1,2-a]quinolines via Ru(II)-Catalysed Dual C-H Activation and Alkyne Annulation
76	Nivas S.	Pondicherry University	Synthesis, Spectroscopic, Crystal structure, Computational and Anticancer studies of Rhenium(I) based Heterofunctionalized Molecular Rhomboids
77	Nripen Khilari	IISER Kolkata	Chan-Lam C-N Coupling Reaction: A Computational Dive into Mechanisms, Regioselectivity, and Ligand Screening for Optimal Catalyst Design
78	Bitan Pratihar	IIT Kharagpur	Borophene-supported Pd Nanoparticles as Electrocatalysts for Oxygen Evolution Reaction
79	Gourab Kumar Dam	IISER Pune	Urea-Tethered Porous Organic Polymer (POP) as an Efficient Heterogeneous Catalyst for Hydrogen Bond Donating Organocatalysis and Continuous Flow Reaction
80	Madhuri Priya S R	Central University of Tamil Nadu	Unravelling the Role of Additives in the Catalytic Efficacy of 13-TMC Bound Mn <sup>III</sup> -O <sub>2</sub> /OOH and Mn <sup>IV</sup> /V-O Species Towards Cyclohexene Epoxidation: A DFT Study
81	Md Azimuddin Sk	IIT Roorkee	Salient Stability of Glutathione-Based Supramolecular Gel in Presence of Oxidative Stress from Hydrogen Peroxide
82	Pallabi Paul	IIT Guwahati	Synthesis of Biopolymer Derived Nitrogen Rich Carbon Dots as a Nanoprobe for Selective Detection of Heavy Metal and Antibiotics in Aqueous Medium
83	Abhay Kumar Yadav	Central University of South Bihar	Schiff Base Complexes of Ni (II) and Cu (II): Synthesis, Structural, Electrochemical, DFT, Hirshfeld Surface Studies and Colorimetric Detection for Al (III) and Cu (II)
84	Anupama Manna	IIT Kharagpur	Hexanuclear Co <sub>4</sub> Gd <sub>2</sub> Aggregate in Unique Candy-Shaped Structure: Room Temperature Synthesis, Structure Determination, Magnetocaloric Effect and Theoretical Validations
85	Anushri Chandra	Jadavpur University	Development of ruthenium complexes with S-donor ligands for application in synthesis and, catalytic acceptorless alcohol dehydrogenation and crossed-aldol condensation

86	Anwesha Mohanty	IIT Bhubaneswar	Tuning the Mechanism of Cancer Cell Death with Variation of Ancillary Ligands and Coordination Mode of Metal
87	Bhaswati Paul	CSIR-IICB	Metal-Organic Cage Receptors for Encapsulation and Sensing of Bile Acids
88	Bhupinder	IIT Bombay	Luminescence Behavior of Cationic and Neutral Cu(I) complexes of Phosphine and Pyridine Embedded 1,2,3-Triazole
89	Divya Goyal	University of Delhi	Metalloligand-based Molecular Architectures for Sustainable Photocatalysis
90	Iti Ghosh	IACS Kolkata	A Potent Bis-heteroleptic Ru(II)-complex based ChB Receptor for Selective Sensing of Phosphates.
91	Kader Asfaque Nazibullah	IISER Bhopal	High-fidelity Stereochemical Memory Retention and Emission Enhancement in a Cubic Nanocage
92	Kajal	IIT (ISM) Dhanbad	Quadruple bridged-carbonate supported dodecanuclear [Ni <sub>8</sub> Ca <sub>4</sub> ] coordination cluster
93	Kamal Krishna Dutta	Cotton University	Fascinating Supramolecular Assemblies in Metal-organic Compounds of Pyridine based Ligands: Anticancer Activities and Theoretical Studies
94	Kuntal Maji	Ramakrishna Mission Residential College	Stabilization of Organic Radicals and Diverse Modification of 1, 2-diamminanthraquinone in Presence of Metal Precursors
95	Md.Adnan Khan	BITS Mesra	Electro and Photocatalytic water oxidation by molecular Cobalt-terpyridine complexes in alkaline medium- An experimental and
96	Medha Aggarwal	IISc Bangalore	Stimuli-Mediated Structural Interchange Between Pd <sub>6</sub> and Pd <sub>12</sub> Architectures: Selective Recognition of E-Stilbene by the Pd <sub>6</sub> Architecture and its Photoprotection
97	Medhavi Khatavkar	Savitribai Phule Pune University	Mixed Ligand Copper(II) Coordination Polymer based on bipyridine-glycoluril and neutral bis(pyridyl) linkers: influence of linker length
98	Minaz Parbin	IIT Madras	Construction of Highly Anisotropic Self-Assembled Coordination Cages by Integrative and Heteromeric Complementary Self-Sorting
99	Monalisa Giri	C. V. Raman Global University	Steric Influence and Controlled Dynamic Process in a Chiral Square Planar Nickel(II) Complex Supported by a Dipyrromethane-based Tetradentate Ligand
100	Moromi Nath	IIT Kharagpur	Spin-Phonon Coupling in Copper (II) based Molecular-Qubit Candidates with Ligand Field Symmetry Model
101	Puranjay Srirambhatla	NIT Warangal	Antioxidant Metal Complexes as Therapeutic agents
102	Rajesh Kushwaha	IIT BHU	D-A-D based Dinuclear Ru(II) Complex with Near-Infrared Light-Triggered Anticancer Activity
103	Rohit Kumar Raut	NIT Rourkela	Gastric stability of ferritin protein cage and its bio-mineral: Implication towards potential dietary iron supplement
104	S. Navitha	Bharathiar University	New Ruthenium-arene complexes containing tetrazolo[1,5-a] Quinoline derivatives: Synthesis, spectroscopy, X-ray crystallography and nucleic acid/protein binding interactions
105	Sakshi	BITS Pilani	Characterization and Photophysical Studies of Zeolite-Y Encapsulated Zn(II) Salmphen Complex with Targeted Anticancer Property
106	Shajahan A	Bharathidasan University	Copper(II)-Flavonolate Complexes of 2N Ligands as Functional Models for Dioxygen-activating Quercetin 2,4-Dioxygenase Enzymes: Sterically-hindered Diketiminato Ligands Tunes the Dioxygenase Activity
107	Shivani	IIT Roorkee	Evaluating the Effect of Electron-Donating and Electron-Withdrawing Groups on the Electrocatalytic Efficiency of $\beta$ -Substituted Iron-Porphyrins in Oxygen Reduction Reactions (ORR)
108	Sivasankari. J	Avinashilingam Institute, Coimbatore	Synthesis and Characterization of Metal Complexes with N-methyl L-phenylalanine as Fluorescent Probe
109	Snisha K V	NIT Trichy	Influence of Indole-N Substitution of Thiosemicarbazones in Cationic Ru(II) ( $\eta^6$ -Benzene) Complexes on Their Anticancer Activity
110	Sreeja Dasgupta	IIT Kharagpur	Molecular Engineering of Ruthenium Water Oxidation Catalysts: From Redox-Non-Innocent Effect of Ligands to Secondary Coordination Sphere Modulation
111	Subhadip Pramanik	IIT Kanpur	Modulation of Spin Coupling in Bimetallic Porphyrin Dimer
112	Subhadip Sett	Ramakrishna Mission Residential College	A Non-equivalent Oxido Bridged Di-ferric Core: Molecular and Electronic Structure
113	Subhashini M	IISc Bangalore	Investigation and Engineering of an Integral Membrane Metalloenzyme for Olefin Biosynthesis
114	Sugantharam Karnan	SRM Institute of Science and Technology	Rational design of fluorescent Organoruthenium nanoparticle as an esterase responsive prodrug with real-time tracking of cargo release
115	Sujan Sk	University of Kalyani	A Series of Copper(II) Complexes of Anthracene-Appended Polyfunctional Organic Assembly Displaying In Vitro Anticancer Activity
116	Sumithaa	SRM Institute of Science and Technology	RAPTA-coordinated polydiacetylene self-assembly: A chameleon-like prodrug with a dual-lock strategy for real-time release monitoring of metallo drug
117	Swagatika Mallik	NIT Rourkela	Role of Heme in Bacterioferritin: As Intrinsic Electron Relay Station

118	Tania Mukherjee	IACS Kolkata	Dioxygen Reduction by an Iron(II)-Benzilate Complex: Iron(IV)-oxo Intermediate on a Flexidentate Ligand
119	Tuhin Sahana	IISER Thiruvananthapuram	Chalcogen Compounds in Nitrite Activation: Insights into Metal-free Redox Transformations
120	Venkatesan Sindhuja	National College, Trichy	Monocopper(II) Complexes of Tripodal Tetradentate Ligands Containing CuN3SChromophores as Functional Biomimetics for Catechol Oxidase
121	Loknath Thapa	IIT Kharagpur	Electrochemical Valorization of 5-Hydroxymethylfurfural Coupled with Hydrogen Evolution Reaction
122	Mahesh Samanta	IIT Kharagpur	A dynamic rod-shaped low molecular weight Cu-metallogel: A precatalyst for green sustainable CO <sub>2</sub> -epoxides cycloaddition under mild conditions.
123	Mainak Bose	Jadavpur University	Stimuli-Responsive Crystalline Materials for Self-Healing and Fluorochromic Property
124	Manajit Mandal	IIT Kanpur	Magnetic-Field-Induced Enhanced Charge Conduction in Cysteine Containing Chiral Nickel Heterostructures
125	Mouli Das Dawn	IIT Kharagpur	Superprotonic Conductivity by Synergistic Blending of Coordination Polymers with Organic Polymers: Fabrication of Durable and Flexible Proton Exchange Membranes
126	Mousumi Dutta	IIT Kharagpur	Unraveling Structure-property Correlations in Fe(II) and Co(II) Spin-crossover Coordination Networks: A Fascinating Diversity
127	Pallav Mondal	NIT Durgapur	Bimetallic MOF Templated Nanocomposites of Molybdenum Oxide for Water-Splitting
128	Parul Yadav	IIT Roorkee	A mixed halide Sillen phase for photocatalytic hydrogen evolution
129	Piyali Das	IIT Kharagpur	A Facile Synthesis of Anatase TiO <sub>2</sub> with Exposed (001) Facet for Enhanced Photodegradation of Malachite Green Dye and Bisphenol A
130	Poulami Panja	IIT Kharagpur	Stimuli-responsive Cu <sup>2+</sup> -coordination triggered metallogels based on terpyridyl based low molecular weight gelators
131	Prapti Priyam Handique	Tezpur University	Study of Catalytic Activity of CuO Nanoparticle Synthesized in Ionic Liquid Media for Reduction of Nitroarenes
132	Priti Bera	IIT Guwahati	A Superhydrophobic MOF Facilitating Efficient Solvent-Free Catalytic Chemical Fixation of CO <sub>2</sub> and Oxidation of Hydrocarbons
133	Priyanka Bhardwaj	BITS Pilani	Sulfonamide-Based Covalent Organic Frameworks: Effective Fillers in Polyethylene Oxide (PEO) for Li-ion Conduction
134	Pushpendra Singh	IIT Roorkee	Arsenite-induced imine hydrolysis and post-hydrolysis origin of fluorescence from selective pH-dependent probe
135	R. Kishore Kumar	Bharathiar University	Hydroxycoumarin derived schiff base probe for reversible sensing of Cu <sup>2+</sup> /Proline and Zn <sup>2+</sup> /Histidine
136	Rachapudi Phebe Florance	University of Hyderabad	A Reduced Polyoxometalate System for Sustainable Development
137	Rahul Pan	IIT Kharagpur	Spin Glass Magnetism in the δ-Co <sub>2</sub> Zn <sub>17.5</sub> -xMnx (x = 0.4–3.5) Pseudo-Binary Alloys
138	Rajarshi Basu	IIT Kharagpur	Role of Surface Oxygen Vacancies and Oxygen Species on CuO Nanostructured Surfaces in Model Catalytic Oxidation and Reductions: Insight into the Structure–Activity Relationship Toward the Performance
139	Riju Dey	University of Oxford	Lithium Insertion into W-based B-site Deficient Perovskite Compounds
140	Rishabh Dubey	IIT Bombay	Metal-Organic Framework based Biomimetic Porous Liquids for Direct-Air CO <sub>2</sub> Capture and Conversion
141	Santanu Ghora	IIT Kharagpur	Transforming Cyano-Bridged Bimetallics Polymer network into Pd <sub>5</sub> Fe Intermetallic Electrocatalysts for Zinc-Air Batteries
142	Shyamali Dutta	IIT Kharagpur	Hourglass-Shaped Ln <sub>9</sub> Clusters from Acetohydrizide Arm Bearing Ligand Anions: Synthesis, Structure and Characterization
143	Sk Sakir Hossain	IIT Guwahati	A Luminescent MOF-Based Sensor for Monitoring of an Anticancer Drug and a Pyrethroid Fungicide Biomarker in Wastewater and Biological Fluids
144	Sneha Ghosh	Jadavpur University	Highly selective, sensitive and biocompatible rhodamine-based positional isomers for Al <sup>3+</sup> -detection
145	Sujan Sen	IIT Roorkee	Harnessing lattice oxygens in a high-entropy perovskite oxide for enhanced oxygen evolution reaction
146	Surajit Pradhan	IIT BHU	Exploring Catalytic Activity of BaO@ZnO Nanocatalyst Towards Environment Benign Biodiesel Production: Kinetics, Thermodynamics and E-metrics Study
147	Sureka K	Bharathiar University	Unveiling the Synergistic Interactions in a Supercapacitive Symphony: A DFT Study of Copper-Metal Organic Framework Integrated MXene Nanosheets on Graphite Sheet Electrodes
148	Swati Bedi	IIT Kharagpur	Ten-Million-Fold Increase in the Electrical Conductivity of a MOF by Doping of Iodine into MOF Integrated Mixed Matrix Membrane
149	Toufik Ansari	IIT BHU	3d-4f Orbital Overlap Improves the Stability and Activity of Metal-Organic Framework-Derived CeFeCo-LDH/CeO <sub>2</sub> Heterojunction Catalyst for Seawater Splitting at Industry Relevant Current Density

150	Vengadesh Krishna M	Bharathiar University	Development of Magnesium Ion Conducting Solid Inorganic Electrolytes from Plant Gum for Magnesium Ion Batteries
151	Priya Gurung	Tezpur University	Promoting C–N Coupling Reaction by Triazine-based Nitrogen Rich Mesoporous Organocatalyst
152	Rageshree Dash	IISER Berhampur	Silylated Phosphine Ligands with Si–H Bonds; Amphiphilic Ligands in Stabilization of Novel Ruthenium and Palladium Complexes and their Catalytic Studies
153	Rahul Mondal	IISc Bangalore	Visible Light-Induced N-Heterocyclic Nitrenium-Catalyzed Deoxygenative Borylation of Aroyl Chlorides
154	Raju Sharma	IISER Berhampur	Boron Appended Ru-NHC Complex Catalyzed Deoxygenative Hydrogenation of Tertiary Amides, Sulphoxides and Desulfurization of Tertiary Thioamides
155	Ram Kishan	IIT Ropar	Noble-metal-free Zn(II)-anchored pyrene-based covalent organic framework (COF) for photocatalytic fixation of CO <sub>2</sub> from dilute gas into bio-active 2-oxazolidinones
156	Ranay Kumar Ray	IIT Madras	Proline Based Chiral Aluminum Catalyst: Synthesis, Characterization and Polymerization Studies
157	Renu	IIT Gandhinagar	Tin(IV) Porphyrins: Synthesis and PDT Application in Lung Cancer
158	Sangita Mondal	IIT Madras	Synthesis and Characterization of Zinc, Cadmium, and Mercury Complexes Based on Radical Dithiolene and Diselenolene Ligands
159	Sangita Sahoo	IIT Madras	A Bench Stable Zinc-amide Compound as a Highly Active Catalyst for the Selective Alk(en)ylation of Unactivated Carbocycles Under Mild Conditions
160	Sarbojit Das	IIT Kharagpur	Ru(II)-Catalyzed Skeletal Editing of Oxindole with Internal Al-kyne to Synthesize C7 Alkylated Indole Derivatives
161	Sazida Yasmin Sultana	Tezpur University	Selective Oxidation of 5-(Hydroxymethyl) furfural to 5-(Hydroxymethyl)-2-furancarboxylic Acid over Eco-friendly Vanadium and Tungsten Based Heterogeneous Catalysts
162	Shekhar Kumar	IIT Gandhinagar	Visible Light Assisted Oxidations of Organic Compounds by Iridium(III) dipyrrinato Complexes
163	Shikha Mishra	NIT Delhi	Metal-Functionalized Ordered Mesoporous Silica: Efficient Catalysts for Diverse Organic Transformations
164	Soumajit Nath	IISER Kolkata	Synthesis of donor-functionalized CAAC-Pd(II) complexes and their application in cross-coupling reactions at room temperature
165	Subhajit Kar	NISER Bhubaneswar	Structural modification of nickel tetra(thiocyano) corroles during electrochemical water oxidation
166	Suhel Mulla	IIT Goa	Synthesis of Macrocyclic ligand and catalytic applications in the synthesis of carboxylic acids using HCOOH or CO <sub>2</sub> as C1 Source
167	Sukanya Guha Roy	IIT Kharagpur	Cu <sub>2</sub> O decorated ZnCr layered double hydroxide for visible light assisted photocatalytic degradation of MO dye and p-nitrotoluene
168	Suman Dolai	IIT Kharagpur	Developing Ru(II)/Fe(II) based heterobimetallic catalysts: redox assisted tandem catalysis for control polymerization
169	Supriya Das	IIT Kharagpur	Design and synthesis of BODIPY conjugated homo and bimetallic dyads: Potential non-heme photosensitizers for singlet oxygen generation
170	Surangana Kashyap	Tezpur University	Immobilization of N-heterocyclic carbene on Fe <sub>3</sub> O <sub>4</sub> nanoparticles: heterogeneous catalyst for oxidative esterification of benzaldehydes
171	Swati	Amity University	Highly Electron Deficient Iron (II)-Porphyrin as An Efficient Catalyst for C-N Bond Formation Reactions
172	Tahshina Begum	Tezpur University	Oxime-Palladacycle Complex Supported on Magnetic Nanoparticles: A Recyclable Catalyst for Suzuki-Type Decarbonylative Cross-Coupling of Esters with Phenyl Boronic Acids
173	Tapas Mahata	IIT Kharagpur	A ruthenium(II) complex containing an N, N-donor ligand as an active catalyst for the alkylation of ketones with benzylic alcohols via the borrowing hydrogen method
174	Urvashi Gupta	IIT Madras	COOPERATIVE B-H BOND ACTIVATION AND FORMATION OF BASE STABILISED DIBORANE(4) SPECIES
175	Sanjana Das	IIT Guwahati	A new urea-based colorimetric and fluorescent sensor for detection of cyanide anion : Exploiting cyanide detection in real-life applications
176	Shruti Verma	Pondicherry University	Design, Synthesis, and Characterization of Manganese(I)-Based Chalcogenolato-Bridged Metalloprisms as a potent Anticancer Agent
177	Subham Sarkar	IISER Kolkata	Computational Insight into Synthesis of Carbenes and Activation of Small Molecules by Pyridyl-tethered Azomethine Ylides
178	Sulekha Kumari Pandit	IIT Guwahati	Tryptophan Detection in Physiological Media Using a FRET-Based Fluorescent Probe: Potential Applications in Environmental Samples and Living Systems
179	Sunanda Pradhan	IIT Kanpur	Luminescent terbium(III) probes containing aromatic amino acid based chelating antenna for discrimination between adenine and guanine nucleotides

180	Paramita Jana	IIT Bhubaneswar	Aqueous emissive cyclometalated iridium photoreductants: synthesis, computational analysis and the photocatalytic reduction of 4-nitrophenol
181	Pintu Das	Jadavpur University	Solvent Responsive Structural Transformation in Semiconducting MOFs
182	Poulami Dutta	IIT Kharagpur	Template Synthesis of Macrocyclic Schiff Base Coordinated Ni(II) and Ni(III) Complexes
183	Rafia Siddiqui	Amity University	From Coordination to $\pi$ -Hole Chemistry of Transition Metals: Metalloporphyrins as a Case of Study
184	Raghunath Singha	NISER Bhubaneswar	Chiral Induction in a Self-Assembled Pd <sub>4</sub> Coordination Cage with Chiral Guests
185	Raveena Soni	IIT Madras	Switching Between a 2-Catenane and the Constituent Rings
186	Satyendra Verma	IIT Guwahati	Effect of twisting of the flexible arms of imidazole-derived urea in zincdicarboxylate coordination polymers
187	Saurav Ghosh	IIT Madras	From Synthesis to Magnetism: Schiff Base Ligand Complexes with Transition and Lanthanide Metals
188	Shagun Kushwaha	IIT Roorkee	Synthesis of anthracene based sensor for the detection of Hg <sup>2+</sup> and antibiotics
189	Soumi Das	Jadavpur University	Control of Photoisomerization Kinetics via Multi-Stage Switching in Bimetallic Ru(II)-Terpyridine Complexes
190	Subham Banik	Cotton University	Unconventional Halogen-Bonded Assemblies and in vitro Antiproliferative Studies in Metal-Organic Compounds of Zn(II) and Co(II)
191	Subhra Sil	IISER Kolkata	Cyclometalated Iridium(III) Complex with Substituted Benzimidazole: pH Directed Organelle-specific Localization within Lysosome
192	Sukanya Bagchi	IISc Bangalore	Tuning of Magnetic Anisotropy and Luminescence in Mononuclear Lanthanide Complexes and its Application as Single Molecule Magnet Transistor
193	Suparna Roy	Jadavpur University	Catalytic Approach of Copper complexes towards Selective Alcohol Oxidation
194	Suparno Debnath	IIT Kharagpur	Selective Synthesis of the Missing Tiara-Like Nickel(II) Thiolate Clusters and Their Efficient Recyclable Catalytic Properties
195	Tankadhar Behera	Sambalpur university	Unravelling Molecular Interaction of Uranyl(VI) Complex with Bovine Serum Albumin
196	Tanusree Ganguly	Jadavpur University	Luminescent Ruthenium-Terpyridine Complexes Coupled with Stilbene-Appended Naphthalene, Anthracene and Pyrene Motifs Demonstrate Fluoride Ion Sensing and Reversible Trans-Cis Photoisomerization
197	Tapaswini Sethi	Jawaharlal Nehru University	Tuning of Thermal Expansion Properties of Mixed-Ligand MOF by Ligand Variation