

### DAY-1, 18th December 2025 (Student Poster Schedule)

S.No	Name	Affiliation	PP No.	Title of Abstract
1	Aditi	University of Delhi	PP-01	Mn(I) Complexes Bearing 2-Mercaptopyridine and Phosphines: Promising Catalysts for Proton Reduction
2	Amirul Islam	IIT Tirupati	PP-02	Regulation of Tyrosinase Enzyme Activity by Glutathione Peroxidase Mimics
3	Amit Kumar Bera	IIT Delhi	PP-03	Insight into the Mechanistic Investigation of Nitrite Reduction at Macrocyclic Fe(II) Center
4	Amit Mandal	IACS Kolkata	PP-04	Direct Reduction of Nitrite to Nitric Oxide by Iron(II): Generation of [FeII{FeNO}7] species vs. Generation of the DNICs
5	Ankit	IIT Kanpur	PP-05	Light-Activated Rhenium Complex Induces Ferroptosis and Immunogenic Cell Death in Breast Cancer
6	Anushka Verma	IIT Hyderabad	PP-06	Multi-Stimuli Responsive Luminescent Ruthenium(II) Complexes as Selective Probe for Cyanide Detection in Aqueous Media: Spectroscopic and Electrochemical Insights
7	Anwesha Ghosh	IEST Shibpur	PP-07	Investigation of Fe (III) complexes with Aminoguanidine Schiff base ligands as biomimetic catalysts and sulphide sensors
8	Apurba Mandal	IIT (BHU)	PP-08	Polypyridyl Os(II) Complexes for Red Light-Activated Photocatalytic Cancer Therapy
9	Aravindh Raj Kannan	IIT Tirupati	PP-09	Biotransformation of Inorganic Arsenic by Functional Models of Methyltransferase AS3MT enzyme
10	Argha Dasgupta	Jadavpur University, Kolkata	PP-10	Exploring free radical induced activity of Carminic acid and its CoII complex with a correlation with activity observed on PC3 carcinoma cells
11	Arindam Basak	IACS Kolkata	PP-11	Thiocarboxylate and Acid Chloride Mediated Generation of Nitric Oxide from a Dinickel(II)-Bis(ONO) Complex Involving the Formation of Perthionitrite and O-Nitrosyl Carboxylate
12	Asit Dutta	IACS Kolkata	PP-12	Effect of Ligand Denticity and Nuclearity on Oxygen Reduction Reaction Catalysed by Copper(II) Complexes
13	Balasubramaniam Selvakumaran	National College (Autonomous) affiliated to Bharathidasan University, Tiruchirappalli	PP-13	Promiscuity of Monocopper(II) Complexes: Emulate the Function of Ascorbate, Amine, and Catechol Oxidases
14	Disha Gauns	Goa University	PP-14	Synthesis, characterization, and application of copper(II) compounds stabilized by tetradentate ligands
15	Gargee Bhattacharyya	NIT Rourkela	PP-15	Segregation of the relative contribution of enzymatic sites and self assembly towards rapid ferroxidase activity and bio-mineralization
16	Gayathri Kolliyedath	IISER Thiruvananthapuram	PP-16	Modulation of NO and HNO Signalling Output by the Synergistic Activation of Nitrite and Thio/selenocarbonyl compounds

17	Jyoti Devi	IISER Mohali	PP-17	Electronically Asynchronous Transition State Tuned from Remote Site for Oxygen Atom Transfer by CuII–Nitrite Complexes
18	K. Dey	University of Bonn, Germany	PP-18	Dual Activation of H <sub>2</sub> and CO <sub>2</sub> by a Pincer-type Ni–Zn Complex
19	Kajal Chaudhary	IIT Kanpur	PP-19	Pyroptosis-Inducing Ruthenium Arene Complex for Immunogenic Targeting of Triple-Negative Breast Cancer
20	Kannan Subburaj	Alagappa University Karaikudi, Tamilnadu	PP-20	Tuning Trans-Fluorenyl substituted porphyrins and their Zinc(II) complexes for Enhanced Photocatalytic applications
21	Limashree Sahoo	IIT Guwahati, Assam	PP-21	Role of Heteroatom Substitution on the Stability and Reactivity of Mononuclear Cu(II)-Alkylperoxo Complexes
22	Neeraj Kumar	IISER Mohali	PP-22	Modeling Met-Tyr-Trp Crosslink Biogenesis in KatG using Synthetic Heme Iron(III) $\pi$ -dication Species
23	Parkhi Sharma	IIT Kanpur	PP-23	Structural and Reactivity Insights into High-Valent Co(III)-( $\mu$ -peroxo) Co(IV) and Its Electromer Co(III)-( $\mu$ -superoxo)-Co(III)
24	Payal Panwar	IIT Guwahati	PP-24	Influence of Asymmetrical Ligand Substitution on the Formation, Stability, and Reactivity of Ruthenium(III) Hypochlorite Complexes
25	Pooja	University of Delhi	PP-25	Dithiolate-Bridged {FeFe} Complexes Incorporating Aminophosphine Ligand: Functional Hydrogenase Models
26	Prashant Kaushik	Gurukula Kangri, Haridwar,	PP-26	New Benzimidazolyl Based Schiff Base and Its Cu(II) Complexes: Crystal Structure, DFT Study, Cytotoxicity Activity and Molecular Docking
27	Pratikshya Das Pattanayak	NIT Rourkela	PP-27	Solution Behavior, Biomolecular Binding, Cytotoxicity, and Cellular Internalization of Mononuclear Non-oxido and Dinuclear Oxido VIV Metallodrugs
28	Prithaj Ghosh	IACS Kolkata	PP-28	Generation and Reactivity of Mononuclear Iron(III)-Hydroxo Complexes Supported by Polydentate Ligands Bearing Amide Groups
29	Priyal Malpani	Central University of Rajasthan	PP-29	Multifunctional Molecules Targeting Amyloid Aggregation and Copper Chelation to Combat Alzheimer's Disease
30	Rachana Kamsala	IIT Tirupati	PP-30	Mechanistic Insights into RHg <sup>+</sup> - and Hg <sup>2+</sup> -Mediated Desulfurization and Deselenization under Oxidative Stress
31	Rajaneesh Kumar Verma	IIT Delhi	PP-31	Selective Catalytic Conversion of Nitrite to Ammonium by an Oxygen Tolerant Molecular Cobalt Complex
32	Rasmi V. Morajkar	CSIR-CLRI Tamil Nadu	PP-32	Ru nanoclusters-integrated tannic acid-etched hollow ZIF-8 nanozyme exhibits remarkable control over specificity of phenoxazinone synthase
33	Renu Devi	IIT Ropar	PP-33	Electrospun Nanofibers with doped ZnO and Cu Nanoparticles Coated with Chitosan for Air Purification through Antimicrobial
34	Rohini A. Kale	Savitribai Phule Pune University	PP-34	Fluorescent Protein Nanoparticles for Cellular Imaging
35	Rwiddhi Chakraborty	NISER, Bhubaneswar	PP-35	Hydrogen Evolution Reaction Catalysed by Secondary Sphere Tuned Corrolato(oxo)antimony(V) Dimer

36	Sanchita Das	NIT Rourkela	PP-36	Organotin(IV) Azo Hydrazonates as Lysosome-Targeted Anticancer Agents
37	Shubham	IISER Mohali	PP-37	Stepwise Nitrate $\rightarrow$ Dinitrogen Transformation Mediated by a Series of Synthetic Heme/Cobalt and Heme/Copper Assemblies: Modeling Denitrification with Cytochrome c Oxidase Mimics
38	Soumyadarshi Rath	IIT Bhubaneswar	PP-38	A Remarkable ParaCEST Activity Shown by a Co(II) Complex With One Inner Sphere Water Molecule
39	Sourav Ghosh	Ramakrishna Mission Residential College Kolkata	PP-39	Aromatic Hydrogen Atom Transfer: Stabilization of a Naked Sigma Radical in a Di-nuclear CuII/CuI Complex
40	Srijan Sengupta	IACS Kolkata	PP-40	Electrocatalytic O <sub>2</sub> -Driven Aldehyde Decarbonylation by a Thiolate Ligated Iron Porphyrin
41	Tanaya Subudhi	NIT Rourkela	PP-41	The Iron-Thiol-Oxygen Nexus: Thiol Molecular Architecture and Protein Encapsulation Dictates Iron Flux and Controls Oxidant Activity
42	Triparna Roy	IACS Kolkata	PP-42	Hydrogen Bonding Activates Ferric Porphyrin Hydroperoxo Species and Drives the Regioselective Heme Oxygenase Reaction
43	Tuhin Sahana	IISER Thiruvananthapuram	PP-43	Coordination-induced Activation of Phenolic O–H: HAT versus PCET Reactivity of a Phenoxyl Radical Complex of Cobalt(II)
44	Venkatesan Sindhuja	National College, Tiruchirappalli	PP-44	Biscopper(II) Complexes Based on Thiophene as Functional Models for Copper Oxidases
45	Abhijit Saha	IIT Kanpur	PP-45	Photochemistry of Ru(II) Polypyridyl Complexes bearing P(III)-based Monodentate Ligand
46	Ajay Vishwakarma	BHU	PP-46	Design, Synthesis, Structural Characterization, DFT Insights, and Electrochemical Studies of Cu(II) Complex with 4-nitro-(thiophen-2-ylmethylene)-benzohydrazide
47	Ambika Devi	IIT Jammu	PP-47	Tuning of Redox and Chemical Events in Iron and Zinc Complexes of Hybrid Redox Non-Innocent Azo-Imine Ligands
48	Amirthalingam Arunkumar	Central University of Tamil Nadu	PP-48	Selective and Efficient Sensing of Nitroaromatic Explosive-picric acid by Copper(I)-phosphine Complexes of 2N Ligands
49	Anasuya Maji	IIT Bombay	PP-49	Synthesis of Axial Bonded Triphyrin(2.1.1)-Metalloporphyrin Aromatic Aromatic and Antiaromatic-Aromatic Dyads
50	Anju Pal	IIT Roorkee	PP-50	Redox Reaction Beyond Thermodynamic Prediction: A Case Study Showing the Role of Au(V) Intermediate
51	Anwesha Mohanty	IIT Bhubaneswar	PP-51	Effect of Planarity of Ancillary Ligands and Lability of Chloride Group in a Series of Ruthenium (II) Complexes on DNA Binding Mode
52	Ashwani Kumar	D.S College Aligarh, U.P	PP-52	Synthesis, Characterization, Biochemical Behavior of Molybdenum (VI) Complex and its Use as Precursor for Metal Sulphide Nanocrystals
53	Avinash Chettri	University of Potsdam, Potsdam, Germany	PP-53	Investigating the Light-Induced Dynamics of a Phototoxic Ru (II)-Based Photosensitizer, TLD1433, in Biologically Relevant Environments.
54	Ayantika Das	IIT Delhi	PP-54	Coordination Behaviour of Carbene Supported Imono Ligands at Alkali Metal Bis(trimethylsilylamide)

55	Ayyan Ghosh	IIT Kharagpur	PP-55	Utilizing Carboxylates in Secondary-Sphere of a Ruthenium Complex for Superior Water Oxidation Catalysis
56	Chandrani Pal	IIT kanpur	PP-56	Nano-Size Trizinc(II) Porphyrin Trimers: A Fluorescence Probe with Tunable Flexibility and Optical Properties
57	Dipanjana Sarkar	IIT Jodhpur	PP-57	Tuning Electrocatalytic HER through Metal–Ligand Interactions: Insights from Fe (III) and Co (III) Aminophenol based Complexes
58	Diptee Mitra	University of Lucknow	PP-58	Synthesis and structural characterization of Co(II) complex with oxadiazole derivatives and its biological application
59	Himanshu	Central University of Rajasthan	PP-59	Exploring the Anticancer Potential of 2-bis(quinolin-2-ylmethylene) Based Half-Sandwich Ruthenium (II) Arene Complexes
60	Jyoti Sharma	IIT Hyderabad	PP-60	Dual-Ligand Perspectives in Cesium Coordination Polymers: Iminopyrrole- and Bis(chalcogenophosphinoyl)methanide-Supported Architectures for ROP Catalysis
61	Kajal	IIT (ISM) Dhandbad	PP-61	Coordination Clusters with [Ni4O4] Core as Catalysts for $\alpha$ -Alkylation of Ketones with Benzyl Alcohols
62	Komal gupta	BHU	PP-62	N-Heterocyclic Imidazole Fusion to form Organo-Chalcogenone of Pyridine and their complexes of Bismuth(III)and Zinc(II) halides
63	Koshis Kumar Pradhan	IIT Kharagpur	PP-63	A Self-healable Zinc(II) – Metallohydrogel for Congo Red Dye Uptake and as a Catalyst in the Cycloaddition Reaction of Epoxide with Carbon
64	Manikumar Athan	Bharathidasan University, Tiruchirappalli	PP-64	Synthesis, Structure and Characterisation of Transition Metal Carbonyls Involving Pyrazolyl Ligands and Application as CO Releasing Molecule
65	Meenakshi Khanna	IIT (ISM) Dhandbad	PP-65	Coumarin-Thiosemicarbazone-Based Fluorescent Sensor for Zn <sup>2+</sup> and Cu <sup>2+</sup> : AIEE, Solid-State Sensing, and Intracellular Fluorescence Imaging
66	Neetu	NIT Delhi	PP-66	Ca(II)@4-Benzamidobenzoic Acid Coordination Polymer: A Cost-Effective Heterogeneous Catalyst For Bio-inspired Benzimidazole Synthesis
67	Pooja Bhardwaj	J.C. Bose UST, YMCA	PP-67	N, S-Donor Amide Ligand [H <sub>2</sub> L] and its Ni (II) metal Complex: Design, Spectroscopic Investigations, and X-ray Structure.
68	Pravesh Kumar	MIT Manipal	PP-68	Multifunctional Oxazolidine Based Copper Catalyst: Oxygen-Hydrogen Evolution Reactions and Biomimicking activities
69	Reena Jangra	IIT Roorkee	PP-69	Electron-rich $\beta$ -Tetrathiophenyl Porphyrins: Synthesis, Structural, and Redox Properties and Their Application as Hole-Transporting Materials in
70	Riya Patel	BHU	PP-70	Synthesis and characterization of dithiocarbamate Cobalt (III) complexes and its optoelectronic Application
71	Sangeeta Jatiwal	SPS-JNU	PP-71	Polyoxometalates-Based Metal–Viologen Pho
72	Teenu Singh	IIT Roorkee	PP-72	Thriving the Biological and Catalytic Potential of Vanadium Complexes of Phenylhydrazinecarbothioamide Based ONS Donor
73	V Swapna	Goa University	PP-73	Chemistry of Metal Carboxylates Containing N-Donor Ligands- Synthesis, Characterisation, and Applications.

74	Vinod J	MIT Manipal	PP-74	Tripodal Schiff Base Derived Cd(II)–Ln(III) Heterometallic Complexes as Selective Fluorescent Sensors for Picric Acid
75	Abhinav Yadav	University of Delhi	PP-75	Optimized Mo-Doped Ni <sub>2</sub> P Nanorings: A Pathway to Efficient Hydrogen Production via Seawater Electrolysis
76	Anjali Mishra	BHU	PP-76	Synthesis, Structural Characterization, and Electrocatalytic Hydrogen Generation Activity of fac-Tris( $\beta$ -Oxodithioester-O <sup>AS</sup> )Cobalt(III)
77	Aritra Guha	IIT Bombay	PP-77	Copper Outmatches Cobalt for Dual Active CO <sub>2</sub> /CO Conversion with Unique Molecular Catalyst Design
78	Ashish Kumar Yadav	Rajiv Gandhi Institute of Petroleum Technology	PP-78	Synergized Nano-interfaced Ultrafine FeNiP Nanoparticles Embedded into Amorphous FeNiO Nanosheets for Ampere-Level High Current Density
79	Balakumaran Kamaraj	IIT Kanpur	PP-79	Hydrogen Generation from Stainless-steel Scrap as Electrodes and RO Reject as Electrolyte: A Sustainable Electrolysis Approach
80	Deepak Kumar	IIT Dharwad	PP-80	Nitrate Reduction Enabled by Nuclearity-Dependent Reactivity of Nickel Thiolate Nanoclusters
81	Fareen Umar	IISER Bhopal	PP-81	High Entropy Metal Phosphate Pre-catalyst For Oxygen Evolution Reaction
82	Harshit Gupta	IIT BHU	PP-82	Regulation of the Second Coordination Shell of Ruthenium Single Atoms for Improved Acidic Hydrogen Evolution Reaction
83	Hirak Kumar Basak	IIT Delhi	PP-83	Enhancing the Valence Band Charge Localization via Zinc Doping into MnWO <sub>4</sub> to Promote Selective Ammonia Electrooxidation
84	Khanindra Kalita	IIT Indore	PP-84	Reversible Formic Acid Dehydrogenation and CO <sub>2</sub> Hydrogenation to Formic Acid Over Ruthenium-imidazolyl Amine Complexes–ligand
85	Mahesh Jadhav	Savitribai Phule Pune University	PP-85	Synthesis and Structural Elucidation of Functionalised Naphthoquinone Derivative for Energy Application
86	Neha Clare Minj	IIT Kanpur	PP-86	Repurposing Cu Scrap into a Multi-Functional Catalytic Anode for Energy Conversion Reactions
87	Pabitra Mandal	IISER Bhopal	PP-87	Catalytic CO <sub>2</sub> -Hydrogenation with Molecular Cobalt-NHC Complexes
88	Pavan Bavanavar	IIT Dharwad	PP-88	Ni <sub>6</sub> L <sub>12</sub> Cluster Catalysed Electrocoupling of Nitrate and Carbon dioxide to Urea
89	Pracheta Trivedi	IIT Kanpur	PP-89	Galvanic Displacement Strategy for Fabricating Pt–Decorated Cu Electrodes Towards Efficient HER
90	Samarpita Das	IIST Shibpur	PP-90	Ce and Co Incorporated Covalent Organic Polymer Based on Tetraethylene Glycol-Linked Porphyrin as a Trifunctional Catalyst for Water Splitting and Zn–Air Batteries

**DAY-2, 19th December, 2025 (Student Poster Schedule)**

S.No	Name	Affiliation	PP No.	Title of Abstract
1	Sandeep Yadav	IIT Kanpur	PP-91	Ni–Fe MOFs-Derived Hydroxides for Oxygen Evolution: Mechanistic Insights via Chemical Probes and pH Studies
2	Saswati Ray	IISER Bhopal	PP-92	Nucleobase-NHC Hybrid Ligand-Templated Molecular Mn Complexes toward Electrocatalytic CO <sub>2</sub> -to-HCO <sub>2</sub> H Reduction Reaction
3	Shalinee Dubey	BHU	PP-93	Engineering metal macrocycles-carbon composites for stable and efficient oxygen reduction
4	Shalini Sanjay Mishra	University of Hyderabad	PP-94	Intercalating a Potassium–Aqua Complex Cation into an $\alpha$ -MoO <sub>3</sub> Layer without Reducing Molybdenum: A Potential Storage System
5	Sneha Mittal	IIT Kanpur	PP-95	Electrochemical Corrosion-Directed Conversion of Moderately Active NFC Electrode into A High-performance Anode for OER
6	Subarna Sukanya Padhy	IISER Tirupati	PP-96	CO <sub>2</sub> -derived Dimethyl Carbonate as Hydrogen Carrier
7	Sujeet Pandey	BHU	PP-97	Enhanced Water Oxidation via Vanadium-Induced Electronic Modulation in Mixed Metal Selenides
8	Sushmita Sushil	Amrita Vishwa Vidyapeetham	PP-98	Synergistic Study of Novel Dicationic Triazolium Electrolyte and Activated Carbon Electrode with Nickel foam and Stainless steel as current collector
9	Thillai Natarajan M	IIT (ISM) Dhandbad	PP-99	Cu(II)-Assisted Electro-oxidation of Ammonia to Green Hydrogen Through Hydrazine Pathway
10	Vaishnavi Yerkar	Savitribai Phule Pune University	PP-100	Anthocyanin-derived chromophores as a natural photosensitizer in Dye-sensitized solar cells
11	Vandana	University of Delhi	PP-101	Electrocatalytic Investigation of Mononuclear Co(II) Schiff Base Complexes for Proton Reduction
12	Allepuram Rameshwari	University of Hyderabad	PP-102	Internal Electric Field Developed at the Interface Between CoNiP Core and ZnIn <sub>2</sub> S <sub>4</sub> Shell Leading to Efficient Charge Separation for Photochemical Hydrogen Evolution
13	Anay Saha	IEST Shibpur	PP-103	Room temperature palladium-catalyzed synthesis of novel bioactive unsymmetrical diamide scaffolds containing moieties of $\alpha$ -ketoester
14	Arkopal Das	IISER Berhampur	PP-104	Cooperative Nickel Catalyst Bearing Tetradentate Ligand Scaffold Utilized for Dehydrogenative Coupling of Alcohols and Internal Alkynes
15	Aruntima Das	Jadavpur University, Kolkata	PP-105	Functional Integration of [Ir(ppy) <sub>2</sub> (bpy)] and a Molecular Nickel Complex into Metal–Organic Frameworks for Photocatalytic Carbon Dioxide Reduction

16	Arya Singh	IIT Roorkee	PP-106	An Iron-Catalyzed Sustainable Functional Group Transfer Strategy of Organic Sulfides to Sulfoxides by a Hydroxylamine-Derived Oxidant: Mechanistic Insights into the Reductive N–O Bond Cleavage
17	Bharath M	Ashoka University	PP-107	Molecular Engineering of Pyridine-2,6-disubstituted Iron Complexes for Hydrogen Generation
18	Bhawana Shekhawat	MNIT Jaipur	PP-108	C-H Functionalization of 9H-fluorene using Cu(II)-triazolyl-pyridine Complexes via Borrowing Hydrogen Strategy
19	Divyansh Dhiman	IIT Roorkee	PP-110	Efficient and Robust Oxido-Molybdenum(V) Corrole Catalysts for CO <sub>2</sub> Utilization
20	Fizzah Fatima	IIT Hyderabad	PP-111	Robust Dehydrofluorination of HFC-245fa to HFO-1234ze via In-Situ VOF <sub>x</sub> Formation over Non-Oxalic acid assisted V <sub>2</sub> O <sub>5</sub> / $\gamma$ -Al <sub>2</sub> O <sub>3</sub> Catalyst
21	Hemant Rawool	IIT Bombay	PP-112	Electrochemical Screening of Nickel, Copper, and Manganese meso-Aryl Dipyrinato Complexes Probing Electrocatalytic Hydrogen Evolution
22	Kailash Mohar	IIT Guwahati	PP-113	Exploring the Potential of a Non-Phosphine Cobalt System for Alco
23	Keshav Sharma	IIT Roorkee	PP-114	Bio-inspired Zn-complex, a potential functional analogue of alcohol dehydrogenase enzyme and its catalytic applications for the synthesis of N-heterocycles
24	Keya Roy	IIST Shibpur	PP-115	Reusable, Iron-Copper Catalyzed (CSP2–N) Cross-Coupling Enabled Access to N-Arylamides as Potential Antibacterial and Anticancer
25	Kritika Dogra	Shiv Nadar Institution of Eminence UP	PP-116	Investigation of the True Catalyst: A Binuclear Ni-NHC Complex for Water Oxidation
26	Md. Adnan Khan	Birla Institute of Technology Ranchi	PP-117	Electrocatalytic hydrogen evolution via copper-terpyridyl mono nuclear complex in homogeneous aqueous medium and after incorporation of graphene oxide to immobilize on Glassy carbon
27	Mohd Farhan Ansari	IIT (BHU)	PP-118	Heterogeneous Manganese Catalyzed Selective $\beta$ -Alkylation of Secondary Alcohols by Primary Alcohols through Double Hydrogen Autotransfer
28	Naveenkumar K	VIT Vellore	PP-119	Phosphine-Free Ruthenium Arene Catalysts: A Green Approach to Acceptor-Less Dehydrogenation for Alcohol and Quinoline Production
29	Palak Kumari Jaiswal	IIT(ISM) Dhanbad	PP-120	Manoeuvring Organo-electrocatalytic Selective CO <sub>2</sub> Reduction to CO by Terpyridine Derivatives: DFT Mechanistic Exploration
30	Pankaj Kumar	Ashoka University	PP-121	Buffer pKa dependent hydrogen evolution catalyzed by cobalt Bis(pyridylmonoimine) complex in water
31	Payal Sharma	Central University of Rajasthan	PP-122	Selective N-Alkylation of Amines using Alcohols Catalyzed by Tailor-Made Ruthenium Complexes of Bidentate N,N-Ligand
32	Preeti Kang	IIT Jodhpur	PP-123	Sustainable Solid Acid Catalysts for Aqueous-Phase Conversion of Cellulosic Biomass to Biofuels and Fine Chemicals
33	Rahul Chauhan	IIT Roorkee	PP-124	Alcohol-derived synthesis of triaryl pyrazolines and bis(indolyl)methanes catalysed by tetrazene-based cobalt catalysts
34	Rhitwika Chowdhury	IIT Kanpur	PP-125	3-Pyridonate Functionalized Tetradentate Ni(II)-NHC Catalyst for CO <sub>2</sub> Reduction: Selective N-Functionalization of Amines to N-Formamides

35	Rohan Dey	IIT Bombay	PP-126	Aerobic Oxidative Coupling of Isonitriles with 2-Aminophenols and 2-Aminothiophenols Yielding Benzoxazoles and Benzothiazoles
36	Rohitash Kumar	NIT Jalandhar	PP-127	Enhanced Photocatalytic Activity of $\beta$ -Cyclodextrin Capped Carbon Dot-Based Synergistic Fe <sub>2</sub> O <sub>3</sub> Nanocomposites for Emerging Pollutant Degradation
37	Sarban Kumar Yadav	Shiv Nadar Institution of Eminence	PP-128	Enantioselective C(sp <sup>3</sup> )-H Chlorination by Ni(II)-CTAmide complex
38	Selvaraj Shanmugavadivel	National College Tiruchirappalli	PP-129	Cytosine-Derived Monocopper(II) Complexes: Multifunctional Catalysis and Anticancer Activity via Greener Pathways
39	Shamim Islam	Tezpur University	PP-130	On Water C-H Bond Oxidation of Benzyl Alcohol by Heterogeneous Co(II)-Zeolite-Y through Non-Radical PMS Activation
40	Shivani Rath	IIT Roorkee	PP-131	Utilization of $\beta$ -Functionalized Oxidovanadium Porphyrins as Efficient and Recyclable Catalysts for the Synthesis of Bioactive Pyranopyrazoles
41	Smruti Rekha Padhy	IISER Tirupati	PP-132	Transition-Metal-Catalyzed Direct Allylic C(sp <sup>3</sup> )-H Arylation of Olefins
42	Sneha Ray	Jadavpur University	PP-133	Electrochemical CO <sub>2</sub> Reduction to CO by a Series of Dimeric Thiosemicarbazone Rhenium(I) Catalysts
43	Souvik Kundu	IIT Kharagpur	PP-134	Efficient and Sustainable Degradation of PET Using Simple Air-Stable Terpyridyl Based Ru(II) Catalysts
44	Subarna Kar	IIT Madras	PP-135	Efficient Synthetic Approach to m-Terphenyl Derivatives via Arylation of Azolium Salts
45	Sundharrajan Jegadeesan	IIT Kanpur	PP-136	Synthesis of Cyclic Carbonates under Ambient conditions: Role of (Hydroxy) Pyridonate Functionalized Imidazolium Zincate and Zinc(II)
46	Suprakash Sahoo	IIST Shibpur	PP-137	Palladium-Catalyzed Decarboxylative Cross-Coupling of 2,4-Dienoic Acids and Aryl Halides: Access to Fluorescence Active (E,E)-1,4-
47	Supriya Das	IIT Kharagpur	PP-138	Design and Development of Metallo-BODIPY Hybrid Conjugates as an Effective Photosensitizer for Sustainable Photocatalytic Organic Transformation
48	Tapas Mahata	IIT Kharagpur	PP-139	Cationic Ru(II) Catalyzed N-Alkylation of Amides with Benzylic Alcohols: A One-Pot Strategy toward Antiemetic Drugs
49	Tonmoy J Bora	Tezpur University	PP-140	UV Light Driven Suzuki-Miyaura Cross-Coupling Reaction over ZnO Photocatalyst with Ultra-low Pd and Ru Loading
50	Kanishka Raghuvanshi	BHU	PP-141	Aggregation-Driven NIR-II Luminescence in a Pr(III) Polymer chain with pyridine-2,6-dicarboxylic acid: A New Frontier in Lanthanide Photophysics
51	Uttam Sarkar	NIT Raipur	PP-142	Tunable White Light Emission from Lanthanide Schiff Base-PMMA Composite Films
52	Biplab Mahata	CSIR-NCL Pune	PP-143	Mastery of Magnesium in Transition Metal-Free Catalysis
53	Chhavi	IISER Bhopal	PP-144	Design, Synthesis, and Antibacterial Activities of Multi-functional C <sub>2</sub> -Functionalized 1,4-Naphthoquinonyl Organoseleniums



54	Chinmoy Majumder	IIT Delhi	PP-145	Cyclic Alkenyl Amino Carbene (SMeCAenAC): Introducing a Member to the Cyclic Alkyl Amino Carbenes Family Featuring a Narrow Energy Gap
55	Dharmveer Bhedi	Central University of Rajasthan	PP-146	A Facile Green Synthetic Route for C-C Bond-Forming Reactions of Naphthalenemethanol with Various Substituted Arenes Mediated by
56	Jogendrananda Barik	IIT Madras	PP-147	N-formylation of Amines using Anilido-pyrazolate Ligand Supported Germylene
57	Pallabi Mondal	IIT(ISM) Dhanbad	PP-148	Hypervalent Sn(IV) compounds as efficient catalysts for the synthesis of xanthene derivatives
58	Raj Kumar Sahani	BHU	PP-149	Studies on indium(III) furan-2-thiocarboxylates and their catalytic activity toward multicomponent reactions
59	Souvik Goswami	IIT Bhilai	PP-150	Unveiling a metal-free synthesis of imidazolones
60	Sudipta Chakraborty	IIT(ISM) Dhanbad	PP-151	Element Ligand Cooperativity of Mononuclear Organotin (IV) Compounds for Hydroboration Reactions of Aldehydes
61	Tanya Batra	IIT Delhi	PP-152	Heavier Analogs of Bis(germaamides) Stabilised Through a Pyrrole-Imine Dimeric Ligand
62	Vishakha	IIT Delhi	PP-153	Activation of the E-X Bonds of Molecules by a Bis(germylene) (E = C, Ga, Ge, Sn, Ag and X = Cl, Br, I)
63	Vishal Singh	IIT Delhi	PP-154	Dianion separated Bis(Stannylene) Cations: Highly Efficient Catalysts for Aldehyde Hydroboration
64	Yashdeep Maurya	IIT Roorkee	PP-155	Unveiling the Potential of Bismuth in Homogeneous Electrochemical Proton Reduction
65	Aakash Ravikant Likhar	Ashoka University	PP-156	AishwAggregation induced generation of circularly polarized luminescence in naphthaleneimide-based nanostructures with high dissymmetry factor
66	Aayoosh Singh	BHU	PP-157	Ultrasound-Responsive Mechanochromic Material with Blue-Shifted Emission for Sensitive Cu <sup>2+</sup> Detection in Alzheimer's
67	Aditya Kamal	IIT Kanpur	PP-158	Exploring tetrazine-viologen in high-performance electrochromic devices
68	Agamoni Pathak	NIMS, Tsukuba Japan	PP-159	Electrochemical Fabrication of Reduced Graphene Oxide Hybrid Thin Films Using Bifunctional Metal Salt Electrolytes
69	Ainam Payang	NIT Rourkela	PP-160	Structural Phase Transition in OD (TMBA) <sub>3</sub> Bi <sub>2-2x</sub> Sb <sub>2x</sub> Cl <sub>6</sub> . Metal Halides: Expression of the Lone Pair Effect and Polyhedral Distortion
70	Aishwarya Sinha	IIT Hyderabad	PP-161	Ba <sub>3</sub> Sn <sub>2</sub> Q <sub>7</sub> (Q = S and Se), Ba <sub>8</sub> Sb <sub>6</sub> S <sub>17</sub> , and BaSb <sub>2</sub> S <sub>4</sub> : Syntheses, Crystal Structures, and Photovoltaic Studies
71	Akanshi Gupta	University of Delhi	PP-162	Synthesis and Characterization of Novel MoSe <sub>2</sub> /g-C <sub>3</sub> N <sub>5</sub> Composite for Effective Catalytic Degradation of Noxious Organic Pollutants
72	Amit Kumar Singh	BHU	PP-163	Smart Luminophore Integrating AIE, Mechano-/Thermo-/Viscochromism, and Dual Zn <sup>2+</sup> /Cu <sup>2+</sup> Detection for Live-Cell Imaging

73	Amit Nagar	IIT Ropar	PP-164	Isomeric Cyano-vinylene-linked Covalent Organic Frameworks and Their Impact on Photocatalytic Hydrogen Evolution
74	Anannya Sahaw	IIT Kharagpur	PP-165	A Copper(I/II) – Metallohydrogel as a Reusable Catalyst in the Copper-Catalyzed Alkyne-Azide (CuAAC) Cycloaddition Reaction
75	Anil Punetha	S. V. Govt. P.G. College, Lohaghat Almora	PP-166	Biogenic Synthesis of Silver Nanoparticles from Natural Reducing/Stabilizing Agents
76	Asma A. Virani	AcSIR Ghaziabad	PP-167	Biomass-Waste derived Humin Biopolymers as a Platform for Next-Generation Functionalized Materials and Catalytic Applications
77	Chhanda Mondal	IIT Kharagpur	PP-168	Zn(II)-Metallopolymers with Thermally Induced Self-Healing and Iodine Capture Capability
78	Dipali Pawar	Savitribai Phule Pune University	PP-169	Naphthoquinone oxime ligand-based metal complexes as a catalyst for alcohol oxidation.
79	Glory James	IISER Thiruvananthapuram	PP-170	Ligand-Free Au <sub>9</sub> Nanocluster Templated Growth of Zirconium-Base
80	Gourab Hati	IIT Kharagpur	PP-171	Synergistic Effect of 2D/3D Oxide-Hydroxide Hybrid With PDMS for High-Capacitance Symmetric Supercapacitors
81	Heera Lal Kewat	Dr. Harisingh Gour University Sagar	PP-172	Ionic Liquid-Assisted Functionalization of Graphene Oxide and its Band Gap Engineering
82	Huidrom Mangalsana	CSIR- CLRI Chennai	PP-173	Redefining Biomimetic Catalysis: A Smart 2D Nanozyme Exhibiting a Unique Product-binding Activated LMCT Signalling Mechanism
83	Joginder Singh	IIT Hyderabad	PP-174	Sulfur-Mediated Photoluminescent Modulation in a Fluorogenic Scaffold for Emissive Technologies
84	Lavkesh Kumar	Dr. Harisingh Gour University, Sagar	PP-175	Doping Driven Tunability of Photo-dependent and Photo-independent Antibacterial Therapies Using Indium Sulphide Nanoparticles
85	Manoj Kumar Baskey	IACS Kolkata	PP-176	Evaluation of Metallogelation and Biological applications of L-Phenylalanine-Based Zn(II) Coordination complex-derived
86	Nandana V	IISER Thiruvananthapuram	PP-177	Hierarchical Triple-Helical Assembly in Atomically Precise Cluster-Assembled Materials via Covalent Linkage
87	Neha Kumari	IIT Kanpur	PP-178	Employing Bio-Inspired lone Pair- $\pi$ Interactions in Sequestration and Activation of Environmentally Detrimental Molecules
88	Nidhi	BITS-Pilani Rajasthan	PP-179	Multistate AIEE Fluorescent Sensor for Hydrazine and TNP Detection with Solvatochromic Properties
89	Nilotpal Deka	IISER Pune	PP-180	A Highly Electrostrictive A <sub>2</sub> BX <sub>4</sub> -Type Hybrid 2D Perovskite Ferroelectric and the Utility of Its Piezoelectric Nanogenerator in Wireless Mat-Sensor Technology
90	Pallabi layek	BITS-Pilani Hyderabad	PP-181	Integration of POSS-Metallo-Polymers: Porous Nanorods Engineering for Bifunctional Electrochromic Sodium-Ion Supercapattery Towards Scalable Device
91	Paltu Kumar Giri	IIT Ropar	PP-182	Designing Functionalized Metal-Organic Frameworks for C–H Bond Carboxylation to Produce Valuable Compounds by the Utilization of CO <sub>2</sub>

92	Parul Aggarwal	IISER Bhopal	PP-183	Temperature-Dependent Synthesis of Robust Ultrathin Cobalt Oxide Nanomesh for Oxygen Evolution Reaction
93	Parul Yadav	IIT Roorkee	PP-184	Synergistic effect of ultrasonication-induced surface activation and A-site Sr/Ba distribution unlocks cocatalyst-free hydrogen evolution in
94	Pradeep Sachana	IIT Kanpur	PP-185	Electrosynthesis of Molecular Memory Elements†
95	Pranaya Mohanty	IIT Kanpur	PP-186	Persistent Photoinduced Charge Transport Enabled by Rigid Pyrene-Metal Coordination
96	Prasad C. Walimbe	S.P. Mandali's, Sir Parashurambhau College, Maharashtra	PP-187	Reaction–Diffusion Routes to Engineer Functional Mo-based Heterostructures for Electrocatalysis and Energy Storage
97	Prasanjit Agasti	NIT Rourkela	PP-188	Understanding the Structural Phase transition in Mn <sub>2</sub> Sn <sub>1–x</sub> Si <sub>x</sub> S <sub>4</sub> : From Defect Rock Salt to Olivine Structure
98	Rakhi Yadav	SPS-JNU	PP-189	Iso-structural Compounds with Different Thermal Expansion Properties
99	Ritu Rani	BITS-Pilani Rajasthan	PP-190	Solid-State Emissive Pyrene–Chalcone Systems Exhibiting AIEE Characteristics for Dual-Mode (Solution and Vapor) Detection
100	Roopal Pal	SCNS-JNU	PP-191	Pharmaceutical Cleanup: Ag <sup>+</sup> and Co <sup>2+</sup> incorporated K <sub>2</sub> La <sub>2</sub> Ti <sub>3</sub> O <sub>10</sub> for Photocatalytic Ciprofloxin Degradation
101	Saloni Latiyan	University of Delhi	PP-192	Synergistic Interactions of Pt Single Atoms with Nitrogen-Rich g-C <sub>3</sub> N <sub>4</sub> for Superior Photocatalytic Hydrogen Evolution
102	Sesadeva Mallick	NIT Rourkela	PP-193	MFO@BOB@Ag Heterostructure for Enhanced Photocatalytic Removal of Water Pollutants"

**DAY 3, 20th December, 2025 (Student Poster Schedule)**

S.No	Name	Affiliation	PP No.	Title of Abstract
1	Shobhit Saini	SRM Institute of Science and Technology	PP-194	Engineered W-Doped SnO <sub>2</sub> Nanostructures: Optimized adsorbent for adsorption of Emerging Pharmaceutical Pollutants
2	Shubhadip Sanyal	IIT Kharagpur	PP-195	Nano-engineered Chitosan & TiO <sub>2</sub> fillers based UHMWPE Composites for Next Generation Orthopaedic Implants
3	Sravani Bathinapatla	University of Delhi	PP-196	Hierarchical Metal–Sulfide Heterostructures for Efficient and Stable Overall Seawater Electrolysis
4	Subhasish Sahoo	NIT Rourkela	PP-197	Understanding the Effect of Sb Substitution on the Structural Distortion and Luminescence Properties in a Series of OD
5	Suman S. Das	NIT Rourkela	PP-198	Understanding the Relationship Among the Structure and Luminescence Properties in Sb/Bi-based OD Hybrid Metal Halides Containing S-Based Organic Cation

6	Sumana Podder	AcSIR Ghaziabad	PP-199	Probing Under-Utilized Melem as Host Scaffold with Strategic Modulation of Cobalt Oxidation State to Accelerate Alkaline Water Splitting
7	Suparno Debnath	IIT Kharagpur	PP-200	Toroidal Nickel(II)-Thiolate Nanoclusters as Recyclable Catalysts for the Reductive Functionalization of Nitroarenes with Olefins
8	Tarkeshwar Maddeshiya	BHU	PP-201	Pyrene-Functionalized Bioinspired (L/D) Amino Acids for Chirality- and Side-chain-guided Nanoassembly Modulation and Intracellular Cu(II) Detection
9	Vikash Kushwaha	IISER Pune	PP-202	A Highly Moisture-stable Ferroelectric Ammonium Phosphate Salt showing Piezoelectric Energy Harvesting and Rotation Sensing Applications
10	Anshul Yadav	Banasthali Vidyapith, Newai	PP-203	Azomethine-Based Co (II) and Mn (II) Complexes: Synthesis, Characterization, and Biomedical Potential
11	Astha Kamboj	Banasthali Vidyapith, Banasthali	PP-204	Lanthanide Schiff Base Complexes: Emerging Prospects in Cancer Treatment
12	Ayushi Chaudhary	IIT Kanpur	PP-205	Cuproptosis Induction by Cu(II) Complex in Metastatic Triple-Negative Breast Cancer
13	Ayushi Yadav	SPS-JNU	PP-206	Photoinactivation of Multidrug-Resistant Bacteria and Biofilms Using Cyclometalated Iridium(III) Complexes
14	Deepika Chauhan	SPS-JNU	PP-207	Ultrasensitive Detection of NAD(P)H in Aqueous and Cellular Media Using Red-Emitting Iridium AIEgens
15	Kanakasree Mohan	IISER Berhampur	PP-208	Integrating $\beta$ -Diketonate Platinum(II) Complexes with Protein Nanocarriers for Advanced Chemotherapeutic Delivery
16	Md. Masooque Rabbani	SPS-JNU	PP-209	Cyclometalated Iridium(III) Complexes for Mitochondria-Targeted Dual Chemo-Phototherapeutic Anticancer Studies
17	Pritha Chatterjee	IIT Kanpur	PP-210	A Water-soluble photolabile ruthenium(II) complex with a terpyridyl-dicarboxylate ligand: photocytotoxicity triggered by structural strain
18	Riya Kumari	BHU	PP-211	The impact of aromatic ring count on the cytotoxic potential of Copper(I) complexes against human cervical cancer cells-HeLa.
19	Swati Singh	BHU	PP-212	In vitro and in vivo assessment of antitumor activity of Ni(II) and Pd(II) complexes derived from thiourea-based ligands
20	Tankadhar Behera	Sambalpur University Sambalpur	PP-213	Pyrazole-Infused Metal Complexes: Anticancer Activity, DNA Cleavage, and Biophysical Insights into DNA/BSA Interactions
21	Tushar Ranjan Panda	TIFR Mumbai	PP-214	Therapeutic Transition to Kinetically Inert Pt-agents for Betterment of Chemotherapy
22	Ankit Kumar Deval	IIT Roorkee	PP-215	Nitrogen-Rich Porphyrin-based COFs with Dual-Cation Water-in-Salt Electrolytes for Ultra-Stable Aqueous Zn-Ion Supercapacitors
23	Apu Saha	IIT Kharagpur	PP-216	Biomimetic Water Stable Multicomponent HOFs as Ultrahigh Superprotonic Conductors
24	Arjun Warriier	VIT, Vellore	PP-217	Disorder Driven Triphenylamine based Monolithic Covalent Organic Framework for the Efficient Removal of Toxic Oxo-anions from Water

25	Arun Kumar Manna	TIFR Hyderabad	PP-218	Light-Activated Nanopores in Gas-Permselective Membrane
26	Bhushan Kishor Nandre	BITS-Pilani Hyderabad	PP-219	In-Situ Grown BTTh-Tz-COF Film for Dual-Responsive Vis-to-NIR Electrochromic and Bright-to-Quenched Electrofluorochromic Smart Windows
27	Bikram Mondal	IIT Guwahati	PP-220	Redox-Induced Sequestration of Oxoanions: Detoxification of Cr(VI) and Immobilization of TcO <sub>4</sub> <sup>-</sup> at ppb level in Aqueous Systems
28	Janaki Behera	IIT Kharagpur	PP-221	A 2D microporous 'flexible-robust' MOF for efficient natural gas purification with C <sub>2</sub> s/CH <sub>4</sub> and CO <sub>2</sub> /CH <sub>4</sub> separations
29	Krishna Samanta	IIT Delhi	PP-222	Electrochemical Nitrate Reduction with Anderson-type Polyoxoanion Entrapped Quantized γ-FeOOH Core
30	Mebin Varghese	VIT, Vellore	PP-223	Morphology Tuned Viologen-Based Covalent Organic Frameworks: A Fast and Targeted Approach to Eliminate Toxic Organic Pollutants from Water
31	Nadira Khan	Parul University, Gujarat	PP-224	Acid-redox properties tailored- supported Undecamolybdophosphate catalyst for direct oxidative cross-esterification of aldehydes
32	Nazir Ud Din Mir	IIT Guwahati	PP-225	Strategic Design of a Functionalized Al(III) Metal Organic Framework for Chemical Fixation of CO <sub>2</sub> Inside Alkynes Under Ambient Conditions and Efficient Synthesis of Biologically Important Heterocycles
33	Palkaran	TIET Patiala	PP-226	Engineering the potential of CuBTC–clay composites with tunable ratios for antibiotic removal: unravelling isotherm, kinetic, and thermodynamic study
34	Pintu Das	Jadavpur University, Kolkata	PP-227	The Superior Impact of Rigid Linkers over Flexible Ones to Control the Electrical Conductance in Mixed-Ligand MOFs
35	Poorvi Gupta	IIT Delhi	PP-228	Engineering Mono- vs Dinuclear Iron(II)-Active Sites to Steer Liquid Oxygenate Selectivity in Methane Oxidation Pathways Using O <sub>2</sub>
36	Rageshri Dave	The Maharaja Sayajirao University of Baroda, Vadodara	PP-229	Iron substituted phosphotungstates: Synthesis, Charact
37	Rahul Kalita	IIT Delhi	PP-230	Selective Monoborylation of Methane by a Mono Bipyridyl-Nickel(II) Hydride Catalyst
38	Ram Kishan	IIT Ropar	PP-231	Design of Functionalized Covalent-Organic Framework for Photocatalytic Fixation of CO <sub>2</sub> into Value-added Compounds
39	Ruchi	SPS-JNU	PP-232	Reversible Photochromism in Keggin@UiO-66 Composites
40	Ruchika Choudhary	IIT Ropar	PP-233	Cooperative Effects of Heteroatoms and Transition Metals in Polyoxometalate Structural Diversity
41	Samiksha Painuly	Gurukula Kangri Haridwar	PP-234	Design, and Synthesis of RhB@MM-MOF Composites for the Detection of Hg <sub>2</sub> <sup>+</sup> , Cu <sub>2</sub> <sup>+</sup> , and Fe <sub>3</sub> <sup>+</sup> Ions in Aqueous Media
42	Sarfaraz Mahmood	SES-JNU	PP-235	Design of Amino-Functionalized Metal–Organic Frameworks for Efficient Iodine Capture Toward Nuclear Waste Remediation

43	Shagun Kushwaha	IIT Roorkee	PP-236	novel trinuclear Cobalt(II) Coordination Polymer derived from a flexible anthracene ligand: High-performance luminescent sensing of NACs
44	Shamsad Ali	IISc Bangalore	PP-237	Host-Guest Interaction-induced Selective Oxidation of Substrate Inside Aqueous Pd <sub>6</sub> L <sub>4</sub> Cage
45	Shubhranshu Mishra	BHU	PP-238	Developing A Novel 3d Cadmium Coordination Polymer As Multifunctional Sensor And Catalyst
46	Soumya Kanti Mondal	JNCASR Bangalore	PP-239	Cluster Metalation and Post-synthetic Pore Modification of MOF-808 Towards Photocatalytic CO <sub>2</sub> Reduction to Ethanol
47	Sujeet Kumar Pal	BHU	PP-240	Regulating the Structural Dimensionality, Gas Sorption and Magnetic Behavior of Co(II) Coordination Polymers
48	Yashi Mittal	IIT Guwahati	PP-241	Cu(II)-Anchored MOF for Catalytic Synthesis of Oxazolidinones Through Room Temperature CO <sub>2</sub> Fixation
49	Zeel Y. Surati	CSIR-NCL Pune	PP-242	Oriented External Electric Field and [Ga <sub>4</sub> L <sub>6</sub> ]-12 metallocage
50	Kamaldeep Sharma	IISER Tirupati	PP-243	Single Crystal to Single Crystal Transformation in a Series of Fe (III) based Pentagonal Bipyramidal Mononuclear Complexes
51	Kusum Kumari	IIT Hyderabad	PP-244	Computational Modelling of Lanthanides-Based Single-Molecule Magnets Embedded in Nanostructured 1D, 2D, and 3D Frameworks
52	Pradnya S. Sawant	Government College of Arts, Science and Commerce, Khandola, Goa	PP-245	Synthesis, Structural Elucidation and Biological Evaluation of Copper(II) NSAIDs Complexes appended by N-Donor Ligands
53	Sarkar A.	IISc Bangalore	PP-246	Multifunctional Molecular Systems: Dynamic and Reversible Modulation of Electron, Spin, and Valence States
54	Shraoshee Shome	IISER Bhopal	PP-247	Dy-SMM for Standalone Magneto Thermometry and Opto-magnetic Temperature Sensing via Multiple Linear Regression
55	Suprabha Pradhan	IISc Bangalore	PP-248	Designing Stimuli-Responsive Metallosupramolecular Systems for Magnetic Switching
56	Avanish Kumar Singh	BHU	PP-249	A Coumarin-Based Schiff Base Probe for Nanomolar Detection and Intracellular Imaging of Cu <sup>2+</sup> and Zn <sup>2+</sup> Ions
57	Devi Amrita Ray	IIT Bhubaneswar	PP-250	Rhodamine–Benzothiazole Dyad: AIE, Optoelectronic Sensing of Diaminopropane and Relay Hydrazine Detection with DFT and AI-Driven Performance Prediction
58	Goutam Panigrahi	IIT Kanpur	PP-251	Differential Binding Interactions of Physiological Phosphates with Luminescent Eu(III) Probes Triggering Analyte-specific Energy-Transfer Pathways for Their Selective Discrimination
59	Kushal Dubey	IIT Bhubaneswar	PP-252	Twisted Donor–Acceptor Architectures for Methanol Sensing: Photophysical Behavior and Computational Insights
60	Moumita Ghosh	Jadavpur University, Kolkata	PP-253	A Dual-Phase Coumarin Based Ratiometric Fluorescent Probe for Highly Sensitive Cyanide Sensing and Bioimaging Applications

61	Ranbir	IIT Ropar	PP-254	Colorimetric Sensor Arrays Integrated with Machine Learning for Comprehensive Detection of Toxic Analytes in Food and Environment
62	Riya Ghanti	University of Calcutta	PP-255	A new coumarin-pyridyl based probe for Zn(II) and effective detection of nitro aromatics by Zn(II) complex in aqueous medium: Live cell imaging and practical applications
63	Samim Javed Gazi	IIT Kharagpur	PP-256	$\pi$ - $\pi$ Stacked Zn(II)-Coordinated Hydrogel with Recyclable Property for Selective Recognition of Acidic Amino Acids at Physiological pH
64	Sonali Bera	Amity University, Noida	PP-257	Luminescent Iridium(III) Probes for Simultaneous and Selective Detection of Fluoride and Aluminium Ions
65	Vikas Surana	IIT Roorkee	PP-258	novel flexible anthracene-based fluorescent probe for the sensing of antibiotics, benzaldehyde and iron (III) metal
66	Akansha Soni	MNIT Jaipur	PP-259	Fe(CO) <sub>5</sub> -Promoted Cascade Hydro aminomethylation of Nitrobenzene and Styrene
67	Akash Shrivastav	BHU	PP-260	iClick reactions of square planar Ni(II) azido complex
68	Aman Anand	IIT Jodhpur	PP-261	Chromium Catalyzed Acceptorless Dehydrogenative (Cross)Coupling of Primary Amines to Secondary Imines
69	Ananya Mishra	NIT Rourkela	PP-262	Amyloid fibril inhibition study with heterocycle conjugated ferrocenyl rhodamine molecular system
70	Ankita Sharma	IIT Delhi	PP-263	Synthesis of Cyclic (Alkyl)(Amino)Carbene-Stabilized Copper-Iron Heterobimetallic Complexes and Their Application in Pyridine Hydroboration
71	Archana Yadav	IIT Kanpur	PP-264	Bioinspired koneramine NNP ligand and its metal complexes: synthesis, CS <sub>2</sub> activation and therapeutic potential
72	Ashok Kumar	IIT Kharagpur	PP-265	PCP Pincer Carbene Nickel and Palladium Complexes, and DMSO as Catalysts for Reductive Functionalization of CO <sub>2</sub>
73	Babu Venkateshappa	IIT Guwahati	PP-266	Production of Lactic Acid via Catalytic Transfer Dehydrogenation of Glycerol Catalysed by Base Metal Salt Ferrous Chloride and Its NNN Pincer-Iron Complexes
74	Bijan Mondal	IISER Berhampur	PP-267	Dehydrogenation of Ammonia Borane to Borazine Using Air-stable, Phosphine-free Homogeneous Nickel Pincer Catalyst
75	Deep Lahan	IISER Kolkata	PP-268	Sensing picric acid with dinuclear triazole chelated iridium(III) nanoaggregates: Insights into the AIEE quenching process
76	Devangana Das	Pondicherry University, Puducherry	PP-269	Cis-Trans Isomeric Mn(I) based Metallocycles from Dithioamidato Chelates
77	Ekta Yadav	IIT Indore	PP-270	Enhanced Activity of Proton-Responsive Protic-NHC-Ru(II) Bis(pincer) Complexes for Electrochemical Water Oxidation
78	Girbide Amitkumar Ramakant	IIT Hyderabad	PP-271	Probing the nature of intramolecular (sp <sup>3</sup> )C-H...Cu(I) interactions in organo thione copper(I) cages
79	Gopendra Muduli	IIT Hyderabad	PP-272	Luminescent Copper(I) Picolyl Benzimidazole-Based Coordination Polymers for Optoelectronic and Security Applications

80	Javed Ali	BHU	PP-273	High Catalytic Efficiency and Selectivity in Ketone Transfer Hydrogenation Using Arene Ruthenium Pre-catalysts with Isopropanol as Proton Donor
81	K. V. Snisha	NIT Tiruchirappalli	PP-274	Designing isothiosemicarbazone-based Ru(II)-arene complexes for anticancer applications
82	Lalit Negi	MNIT Jaipur	PP-275	Ruthenium-Catalyzed Sulfur-Directed Selective Alkylation and Alkenylation of Arenes with Maleimides
83	Madhusri Jana	NIT Rourkela	PP-276	Heterocycle Functionalized [3]Ferrocenophanes: Synthesis, Structural and Properties Study
84	Mahesh Samanta	IIT Kharagpur	PP-277	Copper(II) Metal-Organic Hydrogel as a Recyclable Heterogeneous Catalyst for the Synthesis of 1,3-Oxathiolane-2-thiones via CS <sub>2</sub> -Epoxide Coupling
85	Manish Kumar	Galgotias University	PP-278	Organotin(IV) Compounds Catalyzed Cyanide-free Synthesis of $\alpha$ iminonitriles
86	Manisha	MNIT Jaipur	PP-279	Iron-Water Synergy for Green Transfer Hydrogenation and Reductive Amination Reaction
87	Maruti Suryavansi	IISc Bangalore	PP-280	Design and Synthesis of NHC-Based Photoswitchable Catalysts for Advanced Catalysis
88	Nivas S.	Pondicherry University, Puducherry	PP-281	Self-assembly of Heterofunctionalized Mn(I) Metallacyclophanes: Synthesis, Characterization, Molecular Modelling and Amino Acid Sensing
89	P. R. Amrutha,	CSIR-NCL Pune	PP-282	Synthesis and Reactivity of of NHC Stabilized Boriranes
90	Pallivi Jagota	Dhanalakshmi Srinivasan University, Tiruchirappalli	PP-283	S,N-Coordinated Rhenium(I)-Sulfuryl Thiourea Complexes: Design and Application in Water Splitting
91	Pooja Varak	IIT Bombay	PP-284	Synthesis and Studies of Expanded Carbaporphyrinoids
92	Pragya Maheshwari	University of Delhi	PP-285	Delineating Factors Responsible for the Formation of [(CNN)PtCl]-, [(CNN)PtCl <sub>3</sub> ]-Pincer Complexes and [(NN)PtCl <sub>2</sub> ] Adducts of 2-Picolinoyl Based N-Arylguanidines. Syntheses, Structural and Photo-Physical Studies
93	Rahul Singh	IISER Mohali	PP-286	Redox Noninnocence of a $\beta$ -diketiminato enabling electron transfer catalysis
94	Rajni	Panjab University	PP-287	Ferrostatin-based 1,3-Benzoselenazoles: Synthesis, Antioxidant, and In Silico Ferroptosis Inhibitory Activities
95	S Srividya	IISc Bangalore	PP-288	Leveraging the LMCT Property of BiCl <sub>3</sub> for Visible Light-Driven Polystyrene Upcycling
96	Saswata Karan	IIT Kharagpur	PP-289	Ruthenium(II) Homobimetallic Complex with a Tetradentate N heterocyclic Carbene Ligand: Synthesis, Structural Characterization, and Catalytic Reaction
97	Saurabh V. Parmar	Ashoka University	PP-290	Dissecting Ligand Effects in Pd-Catalyzed Suzuki-Miyaura Coupling
98	Shivansh Dubey	CSIR-NCL, Pune	PP-291	CoBr <sub>2</sub> -Catalyzed Straightforward Synthesis of Quinoxalines via Dehydrogenative Coupling Strategy



99	Srishti Gautam	University of Delhi	PP-292	CNN Palladium(II) Pincer Complexes and Their Catalytic Utility in Suzuki-Miyaura Coupling Reactions Involving Heteroaromatic Substrates
100	Subarna Manna	IIT Madras	PP-293	Synthesis of Quinazolinone Scaffolds via Zinc(II) Stabilized Amidyl Radical Promoted Deaminative Approach
101	Suhas T. Parit	CSIR-NCL Pune	PP-294	Iron-catalyzed alkene isomerization and tandem functionalization
102	Toufik Ansari	IIT (BHU)	PP-295	Cyanate vs. Isocyanate Coordination of Fe in Cyanide-Bridged Polymers Modulates Structural Evolution to Active Water Oxidation Catalysts
103	Ujala Maddheshiya	BHU	PP-296	Heteroleptic Silver (I) Complexes of Dithiocarbamate and Phosphine Ligands: Synthesis Characterisation and Their Application in Multicomponent Reactions
104	Vikas	IIT Guwahati	PP-297	Pincer Cobalt Catalyzed $\alpha$ -Alkylation of Nitriles with Alcohols in Air
105	Vishal Jaiswal	IIT Indore	PP-298	Protic-NHC-Ru(II) Complexes with NNC Pincer Framework for Structural Insights and Catalytic Applications
106	Akanksha singh	CSIR-CSMCSRI Bhavnagar	PP-299	Pillar[5]arene-based Self-Assembled Organic Nanosheets: Engineered for Superior Mechanical Strength and Selective Ion Conductivity via Tailored Supramolecular Interactions
107	Allada Gowtami	IIT Tirupati	PP-300	Fabricating Hybrid Molecular Architecture as Redox-active Congener for Energy Storage
108	Arun Sharma	IIT Ropar	PP-301	Labeling Of Supramolecular Solvents for Assisted Quick And Sensitive Determination of Amitriptyline in Wastewater
109	Ayan Ghosh	IIT Madras	PP-302	Template Induced Orientational Selectivity of Ligands in a Double Cavity Coordination Cage
110	D. John	IIT Madras	PP-303	Ligand Isomerism in Palladium(II)-Based Coordination Cages
111	Debasish Mandal	IIT Bombay	PP-304	Dipyrroethene: An Emerging Chromophore for Material Science and Biology
112	Deepti Ahlawat	University of Delhi	PP-305	Metal-Organic Frameworks Offering Hydrogen Bonding Cavities: Cavity-Specific Sensing and Catalytic Applications
113	Iti Ghosh	IACS Kolkata	PP-306	Methyl-Induced Conformational Tuning of a Halogen Bond Donor Hexapodal Receptor
114	Jugmendra Singh	Deshbandhu College, University of Delhi	PP-307	Indole-Based CNS Donor ligated Ortho- and Peri-Cyclopalladate for Electrocatalytic Oxygen Reduction Reaction
115	K. Jiji	University of Hyderabad	PP-308	Synthesis, Characterization and Photophysical Properties of 2,7,12,17tetra-(p-tert-butylphenyl)dinaphthoporphycene and its Boron Complex
116	Kader Asfaque Nazibullah	IISER, Bhopal	PP-309	Light-Driven Conformational Modulation in a Photo-switchable Eight-Crossing Molecular Knot
117	Kamna	IIT Jammu	PP-310	Completely o-Phenylene Bridge N4-Cyclophane: A Missing Link in the Phenylene Bridge N4-Cyclophane Family

118	Kongki Gogoi	IIT Tirupati	PP-311	Designing Redox-active Hybrid Molecular Analogues for Energy Storage Applications
119	Kusum Boora	University of Delhi	PP-312	Metal Synergy and Cavity Engineering in Multimetallic Complexes for Visible-Light Photocatalysis
120	Meenakshi	University of Delhi	PP-313	Rational Design of Metalloligand-Based MOFs for Tailored Visible Light-Driven Photocatalysis
121	Meenakshi	J.C. Bose UST YMCA	PP-314	Design and Development of Cu@Hybrid Framework Exhibiting Enhanced Peroxidase-Like Activity
122	Monotosh Dalapati	NISER Odisha	PP-315	Self-Assembled Porous Coordination Cages for High-Performance Iodine Capture from Vapor and Aqueous Media
123	Pragati R Sharma	IIT Jodhpur	PP-316	$\alpha$ -Methylbenzylamine Functionalized Crown-Ether Appended Calix[4]arene Phase Transfer Catalyst for Enantioselective Henry Reaction
124	Prioti Choudhury Purba	University of Sheffield, UK	PP-317	Exploiting Weak Supramolecular Interactions to Form Ultrathin Nanosheets
125	Soumya Dey	IISc Bangalore	PP-318	Post-Assembly Modification of a Metal-organic Cage and Fullerene Encapsulation to Synergistically Enhance its Photocatalytic
126	Subham Mandal	IACS Kolkata	PP-319	Halogen bonding assisted chemo-selective C-Br bond arylation over C-I bond using palladium complexed a new pyridine-based macrobicycle
127	Tanmay Chanda	IACS Kolkata	PP-320	Investigation of Anti-melanoma Activity of a Topical Gel from Nitrile Functionalized Zn(II) Coordination Polymer
128	Tapaswini Sethi	SPS-JNU	PP-321	Tuning of Thermal Expansion Properties of Mixed-Ligand MOF by Ligand Variation
129	T. Dakua	IIT Madras	PP-322	Linearly Conjoined Multi-Cavity Discrete Coordination Cages: Molecular Soybeans
130	Umang Kumar	IIT Ropar	PP-323	Machine Learning-Assisted Fluorescence Sensor Array for Detection and Discrimination of Biogenic Amines in Real Food Samples
131	Akhilesh Sharma	IIT Roorkee	PP-324	B–B Sites in Molten Boron Oxide are Superior to Cyclic B–O–B Sites for Methane Oxidation to Formaldehyde and Carbon Monoxide
132	Gursahib Singh Sethi	Max Planck Institute for Chemical Energy Conversion, Mülheim and der Ruhr, Germany	PP-325	Understanding the Experimental Observations of Se-Incorporated Mo-Nitrogenase Resting State through QM/MM Studies
133	Simranjeet Kaur	CSIR-NCL Pune	PP-326	Mechanistic Insights into Zirconocene-Catalyzed Ethylene/1-Octene Copolymerization: Kinetic Hindrance Governs $\alpha$ -Olefin Insertion
134	Soumyajit Karmakar	IIT Kharagpur	PP-327	Outer-Sphere Ligand-to-Metal Charge Transfer in an Fe(III)-Bimetallic Photocatalysts: Insights from Excited State Calculations
135	Dhanveer Singh Rawat	NIT Delhi	PP-328	Inorganic Pollutant Driven Ensemble Learning Framework Integrating Environmental Parameters for Air Quality Prediction in Delhi, India

136	Krishna Kumar M S	SPS-JNU	PP-329	Naphthalene Diimide Radical Ion Qubits: Probing Relaxation and Nutation Dynamics
137	Parna Pramanik	IIT Kharagpur	PP-330	Synthesis, Crystal Structure, Electronic Structure and Magnetic Properties of Ni <sub>3</sub> Ge <sub>2</sub> -xSbx (0≤x≤2)
138	Khushboo Aggarwal	University of Delhi	PP-331	Ag-Modified ZnO@SiO <sub>2</sub> Core-Shell Nanocatalysts for Photocatalytic Degradation and Catalytic Reduction of Organic Pollutants
139	Karambir	JNU	PP-332	Sustainable removal of cationic dyes using Pistacia Vera Testa-derived nanoparticles: Experimental Validation and Theoretical studies
140	Prabhat Dwivedi	BHU	PP-333	Dual mode responsive fluoro chromogenic probe enabling Cu <sup>2+</sup> detection with DFT insights and biological support
141	Ch Mudasar Hussain	SPS-JNU	PP-334	Isolation and Ambient Stabilization of Naphthalene Diimide Radical Cations
142	Dev Raj	IIT(ISM) Dhanbad	PP-109	Molecular Cu(II) complexes as an electrocatalyst for oxygen evolution at an alkaline pH