

ChemSci2023: Leaders in the Field Symposium

23-25 January 2023

JNCASR Bangalore

Selected Candidates' list for the Offline Participation & Poster Presentation at JNCASR

<i>Name</i>	<i>Institution</i>	<i>Poster Number</i>	<i>Poster Title</i>
Abdul Shiraj	IISER Pune	P01	Rotamer dependent and rigidity induced fluorescence emission in gemdimethyl substituted Peptide Nucleic Acid (PNA) monomers
Abhishek Garg	JNCASR Bangalore	P02	Ammonia production rate in the mmol range produced by high density of Cu(100) facets over oxide derived copper
Aditi Saraswat	JNCASR Bangalore	P03	2D Lead and Bismuth Iodide Based Hybrid Layered Perovskites
Akshay Saroha	JNCASR Bangalore	P04	Regulation of Microtubule Dynamics and Function in Living Cells via Cucurbit[7]uril Host-guest Molecular Recognition
Angshuman Das	JNCASR Bangalore	P05	Precision Synthesis of Small Molecule-based Supramolecular Graft Copolymer with onset of Heterogeneous Nucleation
Anindita Bhowmick	IISER Pune	P06	A Direct Access to α -Glutaric Acid Diesters from Aldehydes via Consecutive Giese type Addition Under Visible Light Irradiation
Anish Kumar Das	IISER Thiruvananthapuram	P07	An atomically precise silver nanocluster for artificial light-harvesting system through supramolecular functionalization
Anjali Gaur	JNCASR Bangalore	P08	Conformer population in liquid ethylene glycol (EG) and their selection at the liquid vapour interface and in aqueous solution using a refined non-polarizable force field
Anju A K	JNCASR Bangalore	P09	Controlling the Triplet Harvesting Pathways in Intermolecular Systems via Charge-Transfer Approach
Anshulata	JNCASR Bangalore	P10	Acyl Hydrazide as a Versatile Side Chain for Engineering β -Peptoid Foldamers with Trans Amide Bonds
Antara Reja	IISER Kolkata	P11	Minimal Catalytic Assemblies Promote Oscillations via Feedback Loops in Closed System
Anubhav Kumar	IISER Tirupati	P12	Capturing Elusive Carbocations and Carbanions in Aqueous Microdroplets

Anustoop Das	JNCASR Bangalore	P13	<i>Strong Antibonding p-d Hybridization Leads to Intrinsically Low Thermal Conductivity in a Cubic Metal Halide CuBiI₄</i>
Anwesha Choudhury	IIT Guwahati	P14	<i>Engineering Semiconductor Layer using solvent Additives for Organic Field Effect Transistor</i>
Aparna R. K.	IISER Thiruvananthapuram	P15	<i>Silver Nanoparticle-Decorated Defective MOF for Efficient Electrocatalytic Carbon Dioxide Reduction</i>
Arun Karmakar	CSIR-Central Electrochemical Research Institute	P16	<i>Designing of an Effective Electrocatalyst with Optimized d-Band Center for Water Oxidation Reaction: A Sabatier Principle Approach</i>
Ashutosh Kumar Singh	JNCASR Bangalore	P17	<i>Cobalt-Induced Phase Transformation of Ni₃Ga₄ Generates Chiral Intermetallic Co₃Ni₃Ga₈</i>
Avishek Guin	IISc Bangalore	P18	<i>A Study of the Synthetic Applications of Donor-Acceptor Cyclopropanes and Bicyclobutanes in Lewis Acid Catalyzed Ring-Opening Reactions</i>
Ayan Jati	IISER Kolkata	P19	<i>Proximity and Interlocking in Covalent Organic Framework for Diverse Photocatalytic Cross-Coupling Reactions</i>
Bhaskar Kakoty	JNCASR Bangalore	P20	<i>Dual Functional Propylene Carbonate Co-solvent for High Performance Aqueous Zinc-ion Batteries</i>
Bidhan Chandra Garain	JNCASR Bangalore	P21	<i>Delineating Conformation Control in the Photophysical Behaviour of a Molecular Donor-Acceptor-Donor Triad</i>
Biki Ghosh	IISc Bangalore	P22	<i>Desymmetrization: From Fischer Indolization to De Novo Arene Construction</i>
Biplab Patra	JNCASR Bangalore	P23	<i>Unveiling a High Capacity Multi-redox (Nb⁵⁺/Nb⁴⁺/Nb³⁺) NASICON-Nb₂(PO₄)₃ Anode for Li- and Na-ion Batteries</i>
Brijesh Patel	CSIR-CSMCRI	P24	<i>Organocatalytic transfer hydrogenation and tandem reductive alkylation of N-heteroarenes</i>
Chandra Shekhar Tiwari	IIT Madras	P25	<i>Towards New Coordination Modes of 1,2,3-Triazolylidene: Controlled by the Nature of 1st Metalation in a Heteroditopic Bis-NHC Ligand</i>
Chapireddy Nagarjuna	Vellore Institute of Technology	P26	<i>Fibrous gels of cetyltrimethylammonium bromide in binary solvent mixtures: structural characteristics and phase behaviour</i>
Chitvan Jain	IISER Pune	P27	<i>Incorporating Conducting Polypyrrole into a Polyimide COF for Carbon-Free Ultra-High Energy Supercapacitor</i>
Darshana Deb	JNCASR Bangalore	P28	<i>Amplification of Circularly Polarized Luminescence via Stereoselective Energy Transfer</i>
Debashree Borah	JNCASR Bangalore	P29	<i>Cooperativity of n→π* and nN→π*Ar Interactions and Its Effect on Polyproline Helical Stability</i>
Debattam Sarkar	JNCASR Bangalore	P30	<i>Metavalent Bonding in GeSe Leads to High Thermoelectric Performance</i>
Debendra Prasad Panda	JNCASR Bangalore	P31	<i>Electron-Phonon Coupling Mediated Self-Trapped Exciton Emission in Organic-Inorganic Hybrid Manganese Halides</i>
Dibyajyoti Pathak	IISER Bhopal	P32	<i>Macrocyclic Enforcement of Twist in a Secondary Amide: Reactivity and Influence on Photoisomerisation</i>
Diksha Dhiman	University of Delhi	P33	<i>The effect of cholinium-based ionic liquids and Deep eutectic mixtures as a major</i>
Diptirava Sahoo	IISER Thiruvananthapuram	P34	<i>Synthesis and Operation of a chiral molecular plier</i>
Himan Dev Singh	IISER Pune	P35	<i>An Amine based 3D Iron-MOF Built from Scarce Fe₄O₂ Core for Natural Gas Upgrading</i>

Jagabandhu Sahoo	IISc Bangalore	P36	Ligand Exchange on MoS ₂ Nanosheets: Application in Drug Delivery
Jagpreet Singh Sidhu	IISc Bangalore	P37	Acetylcholine Mimic Approach for Selectively Assay of Acetylcholinesterase Using Fluorogenic Probe
Komal Jaiswal	IISc Bangalore	P38	Towards a Merger of Nanomaterials with Photocatalysis
Kotha Srinu	IIT Hyderabad	P39	Supramolecular Depolymerization in the Mixture of Two Poor Solvents: Mechanistic Insights and Modulation of Supramolecular Polymerization of Ionic p-Systems
Krishna Manna	IISc Bangalore	P40	Highly Selective Turn-off Luminescence Detection of Hg ²⁺ Ions, Aldol Condensation and b – Enamination Studies on New Three-Dimensional Metal-Organic Framework Compounds
Kuruva Balanna	IISc Bangalore	P41	N-Heterocyclic Carbene-Catalyzed Synthesis of Oxazolones, ζ -Lactones and N-N Axially Chiral Molecules
M Sivaprakash	Central University of Tamil Nadu	P42	Asymmetric synthesis of siprohexahydroindole oxindoles via organocatalytic remote olefin E/Z isomerization / [4+2]-cycloaddition reaction
M V Kamala Lakshmi	University of Hyderabad	P43	A Ring Expansion-Stereoselective Cycloaddition of Carbohydrate-Derived Donor–Acceptor Cyclopropanes: Synthesis of Bridged Oxepanone–Indole Hybrids
Madhu R	JNCASR Bangalore	P44	Cyclic dipeptide-based small molecules modulate zinc-mediated liquid–liquid phase separation of tau
Mahendra K. Sharma	University of Duisburg-Essen, Germany	P45	Frontier Orbital Modulation of L(X)Ga-Substituted Diphosphenes [L(X)GaP] ₂ (X = Cl, Br) and their Facile Oxidation to Radical Cations
Manju Solra	IISc Bangalore	P46	Mimicking multi-enzymatic activity using temporally active supramolecular nanozyme
Megha	JNCASR Bangalore	P47	Supramolecular self-assembly of racemic mixture & pure enantiomer: Computational Investigations
Milan Kumar Jena	IIT Indore	P48	Machine Learning Aided Interpretable Approach for Single Nucleotide-Based DNA Sequencing using a Model Nanopore
Monika Yadav	JNCASR Bangalore	P49	Organocatalyzed Regio-regular Polymerization of α -Aryl Trimethylene Carbonates and Synthesis of Diblock Copolymers Containing Donor and Acceptor Blocks
Navaneetha N	CSIR-IICT Hyderabad	P50	Desymmetrization of Prochiral Cyclohexadienones
Nidhi Kumari	IISER Kolkata	P51	Metal-Free Electrocatalytic Activation of Carbon Dioxide
Nijita Mathew	JNCASR Bangalore	P52	NiPd and C ₃ N ₄ work in tandem to enhance the conversion of CO ₂ to formate
Nisha Yadav	IISc Bangalore	P53	Systematic Investigation of Thermally Activated Delayed Fluorescence Emitters via controlling the closeness of intermediate states in fabrication of Organic Light Emitting Diodes
Pankaj Kumar Chaturvedi	IISc Bangalore	P54	Paper-based rapid and selective detection of fluoride ions: development of Tb-based photoluminescent pro-sensitizers
Parvati Marandi	INST Mohali	P55	Molecular Logic Operations using Multi-stimuli Responsive, Mechanically Tunable Elastic Organic Single Crystals

Piyush Singh	IISER Pune	P56	Scalable ultra-microporous MOF from readily accessible ligand
Pothapragada S K Prabhakar Ganesh	IISER Pune	P57	A hydrazine-directed Rh(III) catalyzed (4+2) annulation with sulfoxonium ylides: synthesis and photophysical properties of dihydrocinnolines
Pramod Rai	IISER Kolkata	P58	Intermolecular Dearomative [4+2] Cycloaddition of Naphthalenes via Visible-Light Energy-Transfer-Catalysis
Prasoon Raj Singh	IIT ROPAR	P59	HFIP Triggered Aromatic C-H Alkylation of Oxindoles with Donor-Acceptor Cyclopropanes
Priyanka	IISER Mohali	P60	Enzyme driven modulation of spatiotemporal dynamic self-assembly patterns
Reshma Ramakrishnan	IISc Bangalore	P61	Dispersing Mature Biofilm of <i>Klebsiella pneumoniae</i> using a Cow Rumen Microbial Enzyme and Potentiating Antibiotics and Macrophages Against the Biofilm-Encased Pathogen
Rhituparna Nandi	IISER Bhopal	P62	Total Syntheses of Naturally Occurring Antiviral Indolosesquiterpene Alkaloids, Xiamycins C-F via Csp^3 -H Functionalization
Rishi Ram Mahato	IISER Mohali	P63	Spatiotemporal pH and Catalytic Response of a Nanoparticle Surface in Dynamically Changing Biocatalytic Environment
Ritendra Singh	JNCASR Bangalore	P64	An Experimental Study of Carbon-Doped GaN via Solid-Gas Reaction Route and Investigation of Its Defect-Related Luminescence
Rohan Jena	JNCASR Bangalore	P65	Guest Regulated Charge Transfer in a Flexible Porous Host: Photocatalytic CO_2 Reduction and Role of Metal ions
Rohit Attri	JNCASR Bangalore	P66	An effective approach to reduce the energy consumption in artificial synaptic network
Rohit Kapila	IISc Bangalore	P67	Tailorable AIE from Triphosphate-fuelled non-equilibrium assemblies of a Pt(II)-complex through enzyme regulation
Sai Deepak P	Vellore Institute of Technology	P68	[CMMIM][BF_4^-] ionic liquid catalyzed facile, one-pot synthesis of chromeno[4,3-d]pyrido[1,2- α]pyrimidin-6-ones: Evaluation of their photophysical properties and theoretical calculations
Sandipan Ghorai	CSIR-IICB, Kolkata	P69	Anion-templated programmable Chiral Self-Sorting in Pd_2L_4 Cages and the switching between chiral and achiral isomers
Saravanakumar Natarajan	Madurai Kamaraj University	P70	In Vitro Anti-Cancer Evaluation of Novel Fused Pyrimidines: Design, Synthesis and Characterization
Sarupa Roy	IISER Pune	P71	Probing G-quadruplexes in HIV-1 virus with Dual-App Nucleoside Probes: Potential Tools for Antiviral Therapeutics
Shakil Ahmed	IISc Bangalore	P72	Tetraphenylethene-Based Emissive Pt(II) Coordination Polymer toward Artificial Light-Harvesting Systems with Sequential Energy Transfer
Shantanu Nandi	CSIR-IICB, Kolkata	P73	Bridging between hetero- and homogeneous catalysis: copper powder catalyzed chemo- and regioselective benzylic $C(sp^3)$ -H oxidation
Shilpa Barik	IISc Bangalore	P74	Catalytic, Enantioselective, C_2 -Functionalization of 3-Aminobenzofurans and Synthesis of Dihydrothiopyranones Using N-Heterocyclic Carbenes
Shubhanshi	JNCASR Bangalore	P75	Efforts towards developing a Smart window

Simanta Kalita	JNCASR Bangalore	P76	High Speed Super-Resolution Imaging with Fluorogenic DNA-PAINT
Soniya Mariya Varghese	IIT Madras	P77	The relative effects of pore structure and N-doping on CO ₂ adsorption on biomass-derived carbon
Soumya Panja	JNCASR Bangalore	P78	Nickel Introduces Delayed Fluorescence in Perovskite Quantum Dots
Sourav Sen	INST Mohali	P79	Bioinspired Peptide Scaffolds for Applications in Healthcare
Subha Biswas	IISc Bangalore	P80	Exploring Electron Transport through Polymers under Vibrational Strong Coupling
Subhajit Chakraborty	JNCASR Bangalore	P81	Wurtzite CuGaS ₂ with an In-Situ-Formed CuO Layer Photocatalyzes CO ₂ Conversion to Ethylene with High Selectivity
Subham Das	JNCASR Bangalore	P82	Probing the Effect of Dopants Clustering on Magneto-Optical Properties of Co, Pt doped CdS Nanocrystals by Magnetic Circular Dichroism Spectroscopy
Subhendu Biswas	IACS Kolkata	P83	A Multifaceted Methodology for Functional Polyesters by Transesterification Using Activated-Ester Chemistry
Sudip Mukherjee	JNCASR Bangalore	P84	Amphiphilic Cationic Macromolecule Potentiates Antibiotics Against Multidrug-Resistant Gram-Negative Superbugs and Ameliorate Mixed Species Bacterial Infections
Supriti Dutta	JNCASR Bangalore	P85	Novel design of single transition metal atoms anchored on C ₆ N ₆ nanosheet for electrochemical and photochemical N ₂ reduction to Ammonia
Surashree Goswami	IISER Kolkata	P86	Nonequilibrium Amyloid Polymers Exploit Dynamic Covalent Linkage to Temporally Control Charge-Selective Catalysis
Sweta Thangriyal	IIT Madras	P87	Cu ₃ TeO ₆ as an active electrode material for supercapacitor application
Tamal Dutta	Jadavpur University	P88	Synthesis and characterization of a series of hetero-trinuclear nickel (II)/sodium complexes
Tarak Nath Das	JNCASR Bangalore	P89	Fe (II)-Terpyridine-NDI Based Metal Organic 'Soft' Hybrid for Visible Light Driven Multielectron CO ₂ Reduction
Triza Pal	IISER Kolkata	P90	Chiral and Morphological Anisotropy of Supramolecular Polymers Shaped by a Singularity in Solvent Composition
Yash Acharya	JNCASR Bangalore	P91	Cyclam-based cationic peptidomimetics tackle multi-drug resistant Gram-positive pathogens