



Research Scholar's Day 2022

Department of Chemistry, IIT Kanpur

Date: April 09th, 2022; Venue: L-20 Lecture-Hall

09:30 AM	Inauguration: <i>Prof. Jitendra K. Bera</i> , Head, Department of Chemistry
	Session I (09:40-11:00) Chair: <i>Dr. Arnab Ghosh</i>
09:40-10:00	<i>Ms. Apurva Panjla</i> : Anionic diketopiperazine as a potent osteoinductive molecule
10:00-10:20	<i>Mr. Shovon Chatterjee</i> : Single step green synthesis of methylammonium lead bromide nanocrystals
10:20-10:40	<i>Ms. Sabeeha Parveen</i> : Coinage metal complexes of dimesitylboron containing 2-(diphenylphosphino)-1-methylimidazole
10:40-11:00	<i>Mr. Manmohan Shukla</i> : Sc(OTf) ₃ -catalyzed synthesis of symmetrical dithioacetals and bisarylmethanes
Tea Break (11:00-11:30)	
	Session II (11:30-12:50) Chair: <i>Dr. Dharmaraja Allimuthu</i>
11:30-11:50	<i>Ms. Nidhi Sorout</i> : Effects of BN nanoparticles & selected osmolytes on the secondary structure of A β -peptide in aqueous medium
11:50-12:10	<i>Mr. Arindom Bhattacherya</i> : Hydrogenation of CO ₂ and Urea Derivatives to Methanol Using Proton Responsive Ru(II)-NHC Pincer Catalyst
12:10-12:30	<i>Ms. Usha Yadav</i> : Luminescent lanthanide sensors for the detection of chemical biological warfare agents
12:30-12:50	<i>Mr. Rohit K. Maurya</i> : Femtosecond laser-induced thermal spectroscopy for investigating molecular interactions in liquids
Lunch Break (13:00-15:00)	
	Session III (15:00-16:20) Chair: <i>Dr. Apparao Draksharapu</i>
15:00-15:20	<i>Ms. Khyati Shukla</i> : Enantioselective synthesis of tetrahydrofuran spirooxindoles via domino oxa-Michael/Michael addition reactions using a bifunctional squaramide catalyst
15:20-15:40	<i>Mr. Ashok Kumar</i> : The curious case of tetrachloropalladate – structure, packing and order-disorder transitions
15:40-16:00	<i>Ms. Kasturi Ganguli</i> : Cyclometalated Ru(II) complexes towards functionalization of alcohols and ketones with methanol
16:00-16:20	<i>Mr. Ankush Gupta</i> : Total Syntheses of 6-Amino-2,6-dideoxy- α -Kdo and related compounds
	Session IV (16:20-17:00) Chair: <i>Dr. Nagma Parveen</i>
16:20-16:50	<i>Prof. Srihari Keshavamurthy</i> : The challenge of staying curious in research and teaching
16:50-17:00	Vote of Thanks: President, Chemical Society
	Session V (17:00-18:30) Chairs: <i>Drs. Devendra Mani, Parthasarathi Subramanian, Prakash C. Mondal, and Vishal G. Rao</i>
17.00-18.30	Poster Session and High Tea (17:00-18:30)
	RSD activities ends at 18:30 hours

Poster Presentations

Poster Number	Presenter	Title of the Poster
P-01	<i>Abhijit Manna</i>	Asymmetric synthesis of spiro 3,3'-cyclopropyl oxindoles via vinylogous Michael initiated ring closure reaction
P-02	<i>Abhishek Kumar Yadav</i>	Di-cationic Nitrogen-rich Triazole and Tetrazole-Based Energetic Salts: Synthesis and Detonation Performance
P-03	<i>Anirban Sau</i>	Chemoselective Reductive Methylation of α , β -Unsaturated Ketones using Methanol
P-04	<i>Anubhav Nath</i>	A Protic Mn(I) Complex Based on Naphthyridine-N-oxide Scaffold: Protonation/Deprotonation Studies and Catalytic Applications for Alkylation of Ketones
P-05	<i>Arghya Sen</i>	Conversion of Colloidal 2D Ruddlesden-Popper Iodide Based Perovskite Nanoplates into 3D Nanocrystal: An Insight into Ligand-Nanocrystal Surface Binding
P-06	<i>Ashwini Kumar</i>	Role of Iron Chelators and Their Transmetalative Approach for the Design and Engineering of Potential Therapeutics
P-07	<i>Ayushi Awasthi</i>	Spectroscopically deciphering the formation of a fleeting Ni(III) bisphenoxy diradical complex
P-08	<i>Chhavi Khajuria</i>	Brønsted acid-catalyzed reaction between C-alkynyl imine precursor and thiol: Access to highly enantioenriched propargyl amides
P-09	<i>Deepannita Samanta</i>	An approach to decipher the stability of bis-Fe(IV) <i>MauG</i>
P-10	<i>Dharmendra Kumar Yadav</i>	Hydrogen peroxide - inducible PROTAC for the degradation of epidermal growth factor receptor in cancer
P-11	<i>Diksha Srivastava</i>	Two-dimensional molecular materials for electronic applications
P-12	<i>Hariom Birla</i>	Effect of functional group on the switching efficiency of azobenzene derivatives on graphite
P-13	<i>Himanshu Sonker</i>	Design, synthesis, and therapeutic application of 2-Hydroxy-1- naphthaldehyde Schiff base compounds, utilizing bioconjugation strategies
P-14	<i>Ishani Borthakur</i>	A Selective and Sustainable Synthesis of Secondary and Tertiary Amines by Reductive Alkylation of Azides/ Nitroarenes
P-15	<i>Kajal Chaudhary</i>	Utilizing ferroptosis phenomenon to influence tumor progression and facilitate anti-biofilm cancer mitigation therapies
P-16	<i>Maheswar Reddy G.</i>	Solvatochromic effect on photophysical properties of Imidazolin-5-one containing π -conjugated push-pull system
P-17	<i>Monika Ahlawat</i>	Bimetallic Nanocomposites as an Engineered Plasmonic Catalyst
P-18	<i>Nidhi Garg</i>	Dehydrogenative Methanol Activation and its application as Transfer Hydrogenating reagent under homogeneous catalysis
P-19	<i>Nidhi Gupta</i>	Study of intermixing effect in Ge/Si(001) growth using kinetic Monte Carlo simulations

P-20	<i>Nikhil Gupt</i>	Statistical generalization of regenerative quantum Stirling cycle
P-21	<i>Parasar Kumar</i>	Unexpected Synthesis of Oxadiazole Analogues: Characterization and Energetic Properties
P-22	<i>Priya</i>	Anisotropic quantum drude oscillator model for van der Waals corrections over a cheap density functional
P-23	<i>Ramsha Javed</i>	Bucket Sampling: A New Approach to Compute High Dimensional Free Energy Landscapes
P-24	<i>Ranjeev Kumar Parashar</i>	All-organic molecular electrochromic devices for fast, three states colour-switching with high coloration efficiency
P-25	<i>Ritama Kar</i>	Molecular Dynamics at the Fourth Rung of DFT Jacob's Ladder Made Two Orders of Magnitude Faster
P-26	<i>Saikat Pal</i>	α -alkylation of Nitriles with Primary and Secondary Alcohols by Hemilabile Mn(I) Complex
P-27	<i>Sayantani Banerjee</i>	Stabilization of Axial Phenoxide Radical in a Ni(II)-Fe(III) Heterobimetallic Porphyrin Dimer: An Experimental and DFT Investigation
P-28	<i>Shiwangi Maurya</i>	Genome analysis and growth kinetics of a non-marine halotolerant methylotrophic bacterium <i>Paracoccus sp.</i> strain DMF
P-29	<i>Sikha Gupta</i>	Synthesis and spectroscopic characterization of a Mn(III)-O-Ce(IV) intermediate
P-30	<i>Sona Tiwari</i>	Modulating reactivity of isotopic anhydrides between lysine and cysteine using chemical handles
P-31	<i>Sourav Pal</i>	Iron-catalyzed Wacker-type Oxidation of Olefins Under Ambient Conditions
P-32	<i>Syed Jehanger Shah</i>	Chlorin π -Cation Radical Dimer: A Synthetic Model of Bacteriochlorophyll Special Pair Antenna
P-33	<i>Tanmoy Khan</i>	Is a sugar polyol alter the spatial and dynamic heterogeneity in a non-ionic deep eutectic solvent? Clues form translational, rotational and solvation dynamics
P-34	<i>Vaishali Thakkur</i>	Inhibition Mechanism of Class D β -Lactamases by Avibactam
P-35	<i>Shreya Rastogi</i>	Intramolecular Proton Transfer in Pyridoxal 5'-Phosphate Schiff Bases at the Active Site of Ornithine Decarboxylase: A QM/MM Metadynamics Study
P-36	<i>Prashant K Pandey</i>	Molecular mechanism and kinetics of the process of evaporation at liquid-vapor interface of aqueous solutions

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