

**Selected abstracts of the 5th Regional Science and Technology Congress - 2022 to be held on 11th and 12th January 2023  
at University of Gour Banga, Malda, W.B.**

Presenting author's name	Address/Affiliation with phone number and email ID of presenting author	Title of abstract
Dr. Sanjoy Ghosh	Principal of Prabharani B. Ed. College, Berhampore, Murshidabad, West Bengal, Pin – 742102; Contact No. : 9800474455; Email : sanjoyghosh1981@yahoo.com	Heavy Metals Activity Mechanisms at cellular level and possible action on human bodies.
Dr. Sanjoy Ghosh and Dr. Usri Chakrabarty	Prabharani B. Ed. College, 2 No. Banjetia, Berhampore, Murshidabad, West Bengal E-mail: sanjoyghosh1981@yahoo.com	Street food lovers of Kolkata: Do they really care for hygiene and food safety or only the taste matters?
Ankana Karmakar	Molecular Complexity Laboratory, Department of Chemistry, Raiganj University, Raiganj, West Bengal, India, Pin: 733134 E-mail: ankana.karmakar@gmail.com	Bimetallic Ni/Ag@silica nanocomposite as chemoselective catalyst for solvent free NaBH <sub>4</sub> triggered nitroarene reduction revealed by SERS study
Sayannita Das	Molecular Complexity Laboratory, Department of Chemistry, Raiganj University, Raiganj, West Bengal, India, Pin: 733134 E-mail: ankana.karmakar@gmail.com	Self-assembled chiral superstructure originated from salicylaldehyde azine@b-cyclodextrin inclusion complex
Sahiba Khatun	Molecular Complexity Laboratory, Department of Chemistry, Raiganj University, Raiganj, West Bengal, India, Pin: 733134 E-mail: sahiba64252@gmail.com	Novel thiolated b-cyclodextrin (b-CD) grafted on nanosized silver for cystine sensing in human biofluid through supramolecular approach
Suraj Mandal	Molecular Complexity Laboratory, Department of Chemistry, Raiganj University, Raiganj, West Bengal, India, Pin: 733134 E-mail: surajmandal32@gmail.com	Study of inclusion behaviour of caffeine based ionic liquid with b-cyclodextrin
Akhtar Alam	Department of Chemistry, Indian Institute of Technology Patna E-Mail: akhtar26amu@gmail.com	Functional Microporous Organic Polymer for Selective CO <sub>2</sub> Capture and H <sub>2</sub> Storage
Uttam Paswan	Simulation and Synthesis laboratory, Department of Chemistry, Raiganj University, 733134, WB, India Mail ID-uttamp.up25@gmail.com	In silico screening of Potential selected natural compounds to combat QS relay mechanism of bacterial resistance
Sandip Kumar Das	Department of Chemistry. Raiganj University. Raiganj-733134. West Bengal. India Email: sandipbrj@rediffmail.com	Appraisal of non-carcinogenic health risk due to fluoride and iron in ground water of a CD block of SouthDinapur, India via Monte-Carlo simulation
Shrabanti Mondal	Department of Chemistry, University of Gour Banga, Malda-732103 Email: shrabantimondal097@gmail.com	Ultrafast Charge Transfer and Prolong Exciton Lifetime in COP/Fullerene Composite are Achieved by alternating the Host Fullerene Demonstrated by DFTB-NAMD Approach
Preeti Karmakar	The department of Chemistry, Indian Institute of Technology, Patna, India, E-mail: 1821ch06@iitp.ac.in	Theoretical Study for Collisional Dynamics of CH <sup>+</sup> with Atomic Oxygen: An analysis of three-dimensional Potential Energy Surface

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Akhtar Alam	Department of Chemistry, Indian Institute of Technology Patna, E-mail: akhtar26amu@gmail.com	Functional Microporous Organic Polymer for Selective CO <sub>2</sub> Capture and H <sub>2</sub> Storage
Md Asif Amin	Balurghat Mahila Mahavidyalaya, Balurghat-733101, E-mail: asifaminvb@gmail.com	Excited state Torsion Dynamics of Ultrafast Molecular Rotor by Time-Resolved Spectroscopy
Subhajit Dey	Ph.D. Research Scholar, E-mail: subhajitdey467@gmail.com	Charge Transfer Dynamics in Rotaxane Systems: A Nonadiabatic Molecular Dynamics
Dr. Debojyoti Tarafdar	Chanchal College; E-mail: debojyotitarafdar@gmail.com	Carbazole-azaindole based receptor with strategically induced alkyne spacer for ratiometric fluorescence sensing of dicarboxylic acids: Discrimination of maleic acid and fumaric acid
Poulami Jana	Department of Chemistry, Kaliachak College, Sultanganj, Malda, 732201- West Bengal, India, Email: poulamijana123@gmail.com	Impact of Peptide Sequences on Their Structure and Function: Mimicking of Virus-like Nanoparticles for Nucleic Acid Delivery
Susama Chakraborty	Molecular Complexity Laboratory, Department of Chemistry, Raiganj University, Raiganj, Uttar Dinajpur, West Bengal, India 733 134 e-mail: susamachakraborty91@gmail.com	Development of Thermoresponsive Reversible Supramolecular Hierarchical System for Future Generation Smart Materials