



Passport Size photograph of Faculty.

Name	Dr. Samhita Bhaumik
Designation	Associate Professor & Head of Department
Educational Qualification	Ph. D in Chemistry
Teaching Experience	18 years and 5 months
Specialization	Inorganic Chemistry
Area of Research and Interest of Research	Synthetic Inorganic Chemistry Identification of inhibitors against various diseases from local fruits and vegetables of Tripura.
Publications: Research papers in Journals	Annexure-I
Minor Research Project Details	MRP on 'Synthesis and Characterization of Manganese and Ruthenium Complexes Derived from Nitrogen and Oxygen Donor Schiff base Ligands' funded by UGC-NERO.
Organized National/International Seminars/Workshops/Training	An International Webinar 'Chemistry: Recent Issues and Challenges towards our Society' on 29 th December 2021.
Oral/Poster Presentation in Seminar	06
Refresher/Orientation/Workshop/Training attended	17
Members of Different Academic Bodies	Life member of Tripura Chemical Society, Agartala, Tripura
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Annexure-I: List of Publications

Year	Title of paper / book	Name of Journal, Vol, Pages	Publisher
2001	Molybdenum(VI), (V) and (IV) complexes with chiral benzoin thiosemicarbazone	Transition Metal Chemistry, 26, 557-562	Kluwer Academic Publishers
2002	Synthesis and characterization of manganese (IV) complexes derived from direct reaction of manganese(II) acetate tetrahydrate with oxaloyldihydrazide and 2-hydroxy-1-naphthaldehyde	Synth. React. Inorg. Met.-Org. Chem., 32(1), 81-96	Taylor & Francis
	Heterobimetallic chemistry: Heterobimetallic complexes derived from monometallic copper (II) complex of bis(2-hydroxy-1-naphthaldehyde)malonoyldihydrazone	Indian Journal of Chemistry, 41A, 1157-1162	NISCAIR-CSIR, India
2004	A study on heterobimetallic chemistry of polyfunctional bis(2-hydroxy-1-naphthaldehyde)malonoyldihydrazone: Dioxouranium(VI), dioxomolybdenum(VI), zinc(II), copper(II), nickel(II) and cobalt(II) complexes	Indian Journal of Chemistry, 43A, 516-526,	NISCAIR-CSIR, India
2006	Synthesis, Characterization and Crystal structure of Manganese (IV) Complex Derived from Salicylic acid	Inorg. Chimica Acta, 359, 3105-3110	Elsevier
	Synthesis and Crystal Structure of $[Mn_2(H_2sal)_2(Hsal)_2(H_2O)_4]$: First Example Of Reductive Synthesis of Binuclear Manganese(I) Salicylate Complex	Transition Metal Chemistry, 31, 423-428	Kluwer Academic Publishers
	Synthesis and characterization of manganese (IV) complexes with Tris(hydroxymethyl)-N-(2-oxo-1-naphthylideneamino)methane Schiff base	Journal of Chemical Society, 83, 1080-1086	NISCAIR-CSIR, India
2007	Synthesis and Characterization of Tris[N-(2-oxo-1-naphthylidene)glycinato]-manganese(III) and its reaction products with oxygen, nitrogen and /sulphur donors	Journal of Indian Chemical Society, 84, 418-426	INDIAN CHEM SOC
2014	Metachromatic Interactions of Organic (Citrus sinensis) peel polysaccharide with cationic dyes	Research Journal of Chemistry and Environment, 18(4), 72-77	World Research Association

2015	Synthesis and characterization of ruthenium(II) complexes with N-salicylidene-glycine Schiff base	Research Journal of Chemistry and Environment, Vol. 19 (1)	World Research Association
	Spectroscopic and electrochemical studies of heterobimetallic complexes of manganese(II) and ruthenium(III) derived from <i>N</i> -(2-hydroxynaphthylidene)glycine	Proceedings of National Seminar on "Recent Trend of Research in Chemistry - A New Horizon of Hopes", page no. 121,	ISBN: 978-93-81631-36-2
2016	Characterization of manganese(IV) complexes derived from <i>N</i> and <i>O</i> donor Schiff base ligand by spectroscopic and electrochemical studies	Proceedings of National Conference on "Recent Trend of Research in Physics - (NCRTRP-2015)", page no. 140,	ISBN: 978-93-81631-38-6
2019	Discovery of novel potential selective HDAC8 inhibitors by combine ligand-based, structure-based virtual screening and in-vitro biological evaluation	Scientific reports 9 (1), 1-14	Nature Publishing Group
2020	In Silico Identification of Potential Inhibitors of ADP-Ribose Phosphatase of SARS-CoV-2 nsP3 by Combining E-Pharmacophore-and Receptor-Based Virtual Screening of Database	Chemistry Select 5 (30), 9388-9398	
	In Silico Identification of Potential Inhibitors of the Main Protease of SARS-CoV-2 Using Combined Ligand-Based and Structure-Based Drug Design Approach	Eurasian Journal of Medicine and Oncology 4 (4), 336	Kare Publishing
2021	Potentiality of <i>Moringa oleifera</i> against SARS-CoV-2: identified by a rational computer aided drug design method	Journal of Biomolecular Structure and Dynamics, 1-18	Taylor & Francis
	Identification of SARS-CoV-2 Main Protease Inhibitors Using Structure Based Virtual Screening and Molecular Dynamics Simulation of Drug Bank Database	Chemistry Select 6 (20), 4991-5013	
	Phytochemicals of Zingiberaceae family exhibit potentiality against SARS-CoV-2 main protease identified by a rational computer-aided drug design	Natural Product Research, 1-6	Taylor & Francis

	Identification of Potential Scaffolds From the Shrub <i>Justicia Adhatoda</i> Against SARS-CoV-2 Main Protease Target	International Journal of Quantitative Structure-Property Relationships, 6(4), 56-76	IGI Global
2022	Identification of potential inhibitors of SARS-CoV-2 main protease and spike receptor from 10 important spices through structure-based virtual screening and molecular dynamic study	Journal of Biomolecular Structure and Dynamics 40 (2), 941-962	Taylor & Francis