

PROFORMA FOR BIO-DATA (to be uploaded)

1. Name and full correspondence address: Dr. Bidhan Chandra Samanta, Associate Professor Dept. of Chemistry, Mugberia Gangadhar Mahavidyalaya, Purba Medinipur, West Bengal, 721425.
2. Email(s) and contact number(s): bidhansamanta@yahoo.in, Mob No: 8250095619
3. Institution: Mugberia Gangadhar Mahavidyalaya
4. Date of Birth: 06.11.1977
5. Gender (M/F/T): M
6. Category Gen/SC/ST/OBC: Gen
7. Whether differently abled (Yes/No): No

8. Academic Qualification (Undergraduate Onwards)

	Degree	Year	Subject	University/Institution	% of marks
1.	B.Sc.	1999	Chemistry	Vidyasagar University	61.62
2.	M.Sc.	2001	Chemistry	Vidyasagar University	78
3.	PhD	2008	Chemistry	Vidyasagar University	
4.	NET	2001			
5.	GATE	2001			

9. Ph.D. thesis title, Guide's Name, Institute/Organization/University, Year of Award.

Title: "Study of Mechanical and Thermal Properties of Modified Epoxy Networks and Modified Epoxy Based Composites with Poly (ethylene glycol) Based Toughening Agents".

Guide's Name: 1. Prof. Ajit Kumar Banthia, IIT, Kharagpur, West Bengal, India
2. Dr. Sudipta Dalai, Vidyasagar University, West Bengal, India

University: Vidyasagar University

Year of Award: 2008

10. Work experience (in chronological order)

Sl. No	Positions held	Name of the Institute	From	To	Pay Scale
1.	Assistant Professor	Mugberia Gangadhar Mahavidyalaya	19.12.2006	18.12.2018	Rs. 15600-39100/-
2.	Associate Professor	Mugberia Gangadhar Mahavidyalaya	19.12.2018	Till now	Rs. 1,31,400 - 2,17,100

11. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

S. No	Name of Award	Awarding Agency	Year
1.	Outstanding Paper Award in Chemistry	DSTBT, Govt. of West Bengal	2019
2.	IPS-Research Excellence Award	Indian Photobiology Society (IPS), Kolkata	2024
3.	Fellow of Indian Chemical Society	Indian Chemical Society	2018

12. Publications (List of papers published in SCI Journals, in year wise descending order).

S. No.	Author(s)	Title	Name of Journal with ISSN and Impact factor	Vol., Page, Year
1.	Alipe Saha, Ribhu Maity, Gurupada Dhara, Paula Brandao, Satyajit Pattanayak, Tithi Maity, Keka Sarkar and Bidhan Chandra Samanta	Structurally characterized Ni(II) complex exhibiting potent anti-Candida activity: Biomolecular interaction mechanism and in silico ADMET insights	Dalton Transactions ISSN 1477-9226 (print); 1477-9234 (web) RSC IF: 3.5	Accepted (2026)
2	Manjushree Bera, Tithi Maity, Manik Das, Arjina Khatun, Subrata Mukhopadhyay, Bidhan Chandra Samanta	Mat Stick–Derived CQD/Fe ³⁺ Sensor for Ascorbic Acid Detection and Fluorescent Ink Applications	New Journal of Chemistry ISSN: 1144-0546 (print); 1369-9261 (web) RSC IF: 2.5	Accepted (2026)
3	Manik Das, Uttam Kumar Das, Md Abbasuddin SK, Soumik Laha, Bidhan Chandra Samanta , Sergi Burguera, Antonio Frontera, Tithi Maity, Rajkumar Nandi	Influence of In-Situ Synthesized Tetrazole Coordination on the TNP Detection Efficiency of Schiff Base Zn (II) Complexes	Crystal Growth & Design ISSN 1528-7483 (print); 1528-7505 (web) ACS IF: 3.8	26, 7, 2802–2819 (2026)
4	Debasis Bhunya, Riya Datta, Swapan Maity, Subhasish Sahoo, Bidhan Chandra Samanta	Engineering Ru (II) Schiff base complexes as biofunctional materials: cytotoxic and cell imaging perspectives	New Journal of Chemistry ISSN: 1144-0546 (print); 1369-9261 (web) RSC IF: 2.5	50, 12, 5266-5276 (2026)
5	Mousumi Giri, Manik Das, Somnath Bej, Analava Bera, Deblina Basak, Arunima Biswas, Pronab Kundu, Ekramul Haque, Soumik Laha, Bidhan Chandra Samanta , Tithi Maity	Development of Bioactive mono and binuclear Copper (II) Complexes as DNA binder, Antimicrobial and Anticancer Materials	Journal of Molecular Structure ISSN 0022-2860 Elsevier IF: 4.0	1370, 146480 (2026)

6	Anupam Mudi, Manik Das, Arjina Khatun, Bidhan Chandra Samanta , Nandan Bhattacharya, Tithi Maity	Green-Synthesized Gold Nanoparticles Using <i>Ambrosia artemisiifolia</i> : Insights into DNA Interaction, Protein Binding, Enzyme Mimicry, Anticancer Potential, and Dye Degradation Efficiency	ACS Appl. Bio Mater. ISSN: 2576-6422 ACS IF: 4.7	9, 4, 1906–1921 (2026)
7	Arup Kumar Sarkar, Soumita Roy, Nilakshi Chakraborty, Abir Das, Ribhu Maity, Tithi Maity, Bidhan Chandra Samanta , Tatiana Minkina, Vishnu D. Rajput, Malay Kumar Adak	A rice rhizosphere-associated <i>Bacillus</i> sp. with dual biosorption and enzymatic pathways for Chromium (VI) detoxification	Journal of Basic Microbiology ISSN: 0233-111X (print), 1521-4028 (web) Wiley IF: 2.7	66, 4, e70170 (2026)
8	Manjushree Bera, Manik Das, Bidhan Chandra Samanta, Nitin Chattopadhyay, Tithi Maity	Biomass-Derived Fluorescent Carbon Quantum Dots for Effective Sensing of Dopamine and Lemon Yellow in Real Samples	ChemNanoMat Online ISSN:2199-692X Print ISSN:2199-692X IF: 2.6	12, 5, e202600014 (2026)
9	Manik Das, Bidhan Chandra Samanta , Raj Kumar Nandi, Tithi Maity	Blue Emissive Zn (II) Conjugated 1D Coordination Polymers: Fluorescent Probe for Ultra-Low Level Accurate Detection of DCN Pesticide in Aqueous Medium	Chemistry–An Asian Journal ISSN 1861-4728 (print); 1861-471X (web) Wiley IF: 3.3	21, 5, e70676 (2026)
10	Manik Das, Mainak Das, Soumik Laha, Uttam Kumar Das, Partha Pratim Ray, Bidhan Chandra Samanta , Tithi Maity	Tri-nuclear Cd (II) complexes with diverse anionic residues: unique structures and Schottky device potential	Inorganica Chimica Acta ISSN: 0020-1693 Elsevier IF: 2.7	591, 122963 (2026)
11	Bidhan Chandra Samanta , Shuvendu Dhanda and Tithi Maity	Dietary Effect of <i>Mentha arvensis</i> on Growth and Gene Expression in Freshwater Prawn	ES General ISSN: 2836-399X (Print) ISSN: 2836-4007 (Online) Engineered Science Publisher	11, 2007 (2026)

12	Debasis Bhunya, Riya Datta, Swapan Maity, Tithi Maity, Bidhan Chandra Samanta	Anticancer potential of Ru (II) Schiff base complexes derived from picolinaldehyde and pyrazolyl amines: structural characterization and selective cytotoxicity toward SiHa cells	Journal of Molecular Structure ISSN 0022-2860 Elsevier IF: 4.0	1356, 145138 (2026)
13	Prasun Acharya, Ribhu Maity, Arun Kuila, Priyanka Das, Tuhin Sarkar, Paula Brandao, Tithi Maity, Sudipta Dalai, Keka Sarkar, Bidhan Chandra Samanta	Structure and biomolecular binding behaviour of a polymeric Cu (II) complex with notable anticancer activity	Inorganic Chemistry Communications ISSN: 1387-7003 (Print); 1879-0259 (Online) Elsevier IF: 5.4	185, 116061 (2026)
14	Anupam Mudi, Manik Das, Bidhan Chandra Samanta , Nandan Bhattacharya, Tithi Maity	Green Synthesis of Copper Nanoparticles Using Ambrosia Artemisiifolia and Their DNA Binding, Anticancer, and Dye Degradation Activities	ChemistrySelect ISSN:2365-6549 (Online) 2365-6549 (Print) Wiley IF: 2.0	10, 48, e03749 (2025)
15	Manik Das, Raju Biswas, Uttam Kumar Das, Soumik Laha, Nandan Bhattacharyya, Bidhan Chandra Samanta , Raj Kumar Nandi, Tithi Maity	Terephthyl-linked acyl hydrazone-based K ⁺ /Cl ⁻ ion pair symporter: synthesis, mechanistic insights, and in vitro cytotoxicity evaluation	Bioorganic Chemistry ISSN: 0045-2068 (Print) 1090-2120 (Online) Elsevier IF: 4.7	166, 109136 (2025)
16	Ribhu Maity, Satyajit Pattanayak, Kalyanmoy Jana, Tithi Maity, Swapan Maity, Nasim Sepay, Mohd Afzal, Nayim Sepay, Bidhan Chandra Samanta	Synthesis of N, N, O-Schiff Base Mediated Cu (II) Complex for Anticancer and Catalytic Activities in the 3, 5-DTBC and Dopamine Oxidation	ChemistrySelect ISSN:2365-6549 (Online) 2365-6549 (Print) Wiley IF: 2.0	10, 40, e00791 (2025)
17	Manik Das, Biman Ari, Mousumi Giri, Uttam Kumar Das, Pronab Kundu, Rumi Mahata, Sujata Maity Choudhury, Anindita Chakraborty, Bidhan Chandra Samanta ,	Cu (I) and Cu (II) Complexes with a Piperazine-Containing N, N, O-Chelate Ligand: A Combined Theoretical and Experimental Investigation	European Journal of Inorganic Chemistry ISSN:1099-0682 (online) 1434-1948 (Print)	28, 26, e202500349 (2025)

	Shrabani Mondal, Tithi Maity		Wiley IF: 2.0	
18	Manik Das, Uttam Kumar Das, Shobhan Aich, Raju Biswas, Soumik Laha, Bidhan Chandra Samanta , Tithi Maity, Asim Bhaumik, Dilip Kumar Maiti	Structural Insights into Luminescent Zn (II) Materials for Picric Acid Detection	Crystal Growth & Design ISSN 1528-7483 (print); 1528-7505 (web) ACS IF: 3.8	25, 19, 8021-8034 (2025)
19	Anupam Mudi, Manjushree Bera, Manik Das, Bidhan Chandra Samanta , Tithi Maity	Ambrosia Artemisiifolia (AA) mediated green synthesis of silver nanoparticles with their biomedical application and catalytic activity	Journal of Organometallic Chemistry ISSN 0022-328X Elsevier IF: 2.345	1038, 123754 (2025)
20	Manjushree Bera, Anupam Mudi, Manik Das, Bidhan Chandra Samanta , Tithi Maity	Green Chemistry Approach for Synthesis of Silver Nanoparticles Using Rumex vesicarius: Biological and Catalytic Evaluation	ChemistrySelect ISSN:2365-6549 (Online) 2365-6549 (Print) Wiley IF: 2.0	10, 29, e02214 (2025)
21	Manik Das, Uttam Kumar Das, Shobhon Aich, Raju Biswas, Soumik Laha, Bidhan Chandra Samanta , Tithi Maity, Rajkumar Nandi, Dilip K Maiti	Efficient and visual detection of ammonia and TNP vapors by a sustainable highly luminescent 1D Zn (II) coordination polymer	Chemistry–An Asian Journal ISSN 1861-4728 (print); 1861-471X (web) Wiley IF: 3.3	20, 5, e202401310 (2025)
22	Goutam Kumar Jana, Sumit Bera, Ribhu Maity, Tithi Maity, Arjun Mahato, Shibayan Roy, Hemakesh Mohapatra, Bidhan Chandra Samanta	Effect of an amine-aldehyde condensate modifier on the thermal and mechanical properties of fiber-reinforced epoxy composites	Pigment & Resin Technology ISSN: 0369-9420 eISSN: 1758-6941 Emerald Publishing IF: 1.5	54, 1, 29-38 (2025)
23	Debasis Bhunya, Riya Datta, Ribhu Maity, Alipe Saha, Sujata Sen, Paula Brandao, Satyajit Pattanayak, Tithi Maity, Keka Sarkar, Bidhan	Design and synthesis of bioactive Ru (ii) complexes: antibacterial activity, biocompatibility and biomolecular binding	RSC advances ISSN 2046-2069 RSC IF: 3.9	15, 50, 42573-42587 (2025)

	Chandra Samanta			
24	Raju Biswas, Manik Das, Toushique Ahmed, Soumik Laha, Bidhan Chandra Samanta , Rosa M Gomila, Antonio Frontera, Goutam Pramanik, Tithi Maity	A coordinatively unsaturated mononuclear europium (iii) complex: a luminescent sensor for adenosine monophosphate in aqueous media	Dalton Transactions ISSN 1477-9226 (print); 1477-9234 (web) RSC IF: 3.5	54, 43, 16056-16069 (2025)
25	Susmita Das, Manik Das, Raju Biswas, Soumik Laha, Bidhan Chandra Samanta , Indranil Choudhuri, Nandan Bhattacharya, Nitin Chattopadhyay, Tithi Maity	A highly selective and swift-response AIE-active Schiff base chemosensor for ultra-sensitive detection of Fe(iii) and picric acid: applications in real-world water/drug samples and bioimaging	New Journal of Chemistry ISSN: 1144-0546 (print); 1369-9261 (web) RSC IF: 2.5	49, 41, 17901-17914 (2025)
26	Satyajit Pattanayak, Tuhin Sarkar, Ribhu Maity, Priyanka Das, Paula Brandao, Tithi Maity, Keka Sarkar, Bidhan Chandra Samanta	Biophysical characterization of centrosymmetric doubly bridged Cu(II) complexes: comparative DNA/BSA binding and potential applications	New Journal of Chemistry ISSN: 1144-0546 (print); 1369-9261 (web) RSC IF: 3.3	49, 38, 16849-16862 (2025)
27	Biman Ari, Manik Das, Somali Mukherjee, Deblina Basak, Analava Bera, Arunima Biswas, Pronab Kundu, Paola Brandao, Shrabani Mondal, Bidhan Chandra Samanta , Tithi Maity	Experimental and theoretical studies on piperidine-based heteroleptic Schiff base Ni(II) and Cu(II) complexes investigating DNA/protein binding and anticancer activities	New Journal of Chemistry ISSN: 1144-0546 (print); 1369-9261 (web) RSC IF: 3.3	49, 31, 13446-13462 (2025)
28	Susmita Das, Manik Das, Raju Biswas, Uttam Kumar Das, Soumik Laha, Bidhan Chandra Samanta , Indranil Choudhuri, Nandan Bhattacharya, Tithi Maity	Fabrication of a novel AIE active chemosensor for selective detection of Pd(II) and picric acid: extended detection in the HeLa cancer cell line	New Journal of Chemistry ISSN: 1144-0546 (print); 1369-9261 (web) RSC IF: 3.3	49, 10, 4021-4034 (2025)
29	Manik Das, Raju Biswas, Soumik Laha, Bidhan Chandra Samanta , Indranil Choudhuri, Nandan Bhattacharyya, Tithi Maity	An Al(III) and Hg(II) selective optical and fluorometric chemosensor and its application in prawn, pharmaceutical drug, and in vitro cell imaging	NJC ISSN: 1144-0546 (print); 1369-9261 (web) RSC IF: 3.3	49, 7, 2791-2802 (2025)

30	Ribhu Maity, Mrigendu Midya, Satyajit Pattanayak, Tithi Maity, Swapan Maity and Bidhan Chandra Samanta	Biophysical Studies of Deoxyribonucleic Acid and Bovine Serum Albumin Binding, along with Cytotoxic Assessment on Human Cervical Cancer (SiHa) Cells by an NNNN-type Copper(II) Schiff Base Complex	ES Chemistry and Sustainability ISSN: 3065-1689 (Print); 3065-1697 (Online) Engineered Science IF: Newly launched	5, 1711 (2025)
31	Arun Kuila, Ribhu Maity, Prasun Acharya, Tuhin Sarkar, Ankika Bhakat, Paula Brandao, Satyajit Pattanayak, Tithi Maity, Sudipta Dalai, Keka Sarkar, Bidhan Chandra Samanta	Exploring the Potential Fungicidal Applications of a Cu(II) Complex with Schiff Base and Carboxylates against <i>Fusarium equisetum</i>	ACS Omega ISSN: 2470-1343 ACS IF: 4.3	9, 49, 48273-48284 (2024)
32	Dibyendu Satapathi, Manik Das, Paula Brandao, Uttam Kumar Das, Soumik Laha, Pronab Kundu, Bidhan Chandra Samanta , Tithi Maity	Theoretical and experimental demonstration of mononuclear Ni (II) and dinuclear Ni (III) complexes concerning their catalytic activity, DNA/protein binding efficacy	Inorganica Chimica Acta ISSN: 0020-1693 Elsevier IF: 3.2	571, 122233 (2024)
33	Dibyendu Satapathi, Manik Das, Uttam Kumar Das, Soumik Laha, Pronab Kundu, Indranil Choudhuri, Nandan Bhattacharya, Bidhan Chandra Samanta , Nitin Chattopadhyay, Tithi Maity	Experimental and molecular modelling demonstration of effective DNA and protein binding as well as anticancer potential of two mononuclear Cu(II) and Co(II) complexes with isothiocyanate and azide as anionic residues	International Journal of Biological Macromolecules ISSN 0141-8130 Elsevier IF: 8.5	275, 2, 133716 (2024)
34	Raju Biswas, Pranabendu Das, Manik Das, Soumik Laha, Arijit Bag, Uttam Kumar Das, Bidhan Chandra Samanta , Tithi Maity	Ion pair induced supramolecular assembly for development of novel pyridine 2, 6 diamide spacer acyl hydrazone-based derivatives for selective sensing of ZnCl ₂ and AlCl ₃	Journal of Photochemistry & Photobiology A: Chemistry ISSN: 1010-6030 Elsevier IF: 4.7	452, 115594 (2024)

35	Susmita Das, Manik Das, Uttam Kumar Das, Bidhan Chandra Samanta , Arijit Bag, Anutosh Patra, Nandan Bhattacharya, Tithi Maity	Spirolactam ring locking and unlocking tuned solvent regulated unique Hg(II) sensing by a novel AIE active Rhodamine -1, 2 diamino propane-based Schiff chemosensor and its pH sensor performance	Dyes and Pigments Online ISSN: 1873-3743 Print ISSN: 0143-7208 Elsevier IF: 4.2	222, 111884 (2024)
36	Susmita Das, Manik Das, Arijit Bag, Soumik Laha, Bidhan Chandra Samanta , Indranil Choudhury, Nandan Bhattacharya, Tithi Maity	Selective recognition of Zn(II) by a novel Schiff base chemosensor with the formation of an AIE active Zn(II) complex having picric acid detection ability: Application in live cell imaging study	Journal of Photochemistry & Photobiology A: Chemistry ISSN: 1010-6030 Elsevier IF: 4.7	447, 115214 (2024)
37	Arpita Das, Ribhu Maity, Tuhin Sarkar, Priyanka Das, Paula Brandão, Tithi Maity Keka Sarkar and Bidhan Chandra Samanta	Synthesis, Crystal structure, Lipophilicity, Antioxidant, Binding interaction and Antibacterial investigation against Methicillin-Resistant Staphylococcus aureus of Ni(II) Schiff base complex: Combined Theoretical and Experimental Approaches	New Journal of Chemistry ISSN: 1144-0546 (print); 1369-9261 (web) RSC IF: 3.3	48, 10226 - 10238 (2024)
38	Pranabendu Das, Manik Das, Raju Biswas, Soumik Laha, Bidhan Chandra Samanta , Tithi Maity	Morphological adaptability through structural alterations in an AIE active novel chemosensor with Al (III), Fe (III), and gas phase/aqueous phase TNP recognition ability	New Journal of Chemistry ISSN: 1144-0546 (print); 1369-9261 (web) RSC IF: 3.3	48, 13, 5820-5833 (2024)
39	Ribhu Maity, Biplab Manna, Swapan Maity, Kalyanmoy Jana, Tithi Maity, Mohd Afzal, Nayim Sepay, Bidhan Chandra Samanta	Synthesis of an Aryl-Semicarbazone-Based Cu (II) complex for DNA and BSA interaction and Anti-Cancer activity against human cervix Uteri carcinoma	Inorganics ISSN: 2304-6740 MDPI IF: 3.0	12, 1, 19 (2024)
40	Dibyendu Sathapat, Mainak Das, Manik Das, Uttam Kumar Das, Arijit Bag, Soumik Laha, Partha Pratim Ray, Bidhan Chandra Samanta , Tithi Maity	Development of a novel Cd(II) metal complex for solvent-sensitive detection of Zn(II) and Mg(II) with the formation of Cd(II)-Zn(II)/Cd(II)-Mg(II) complexes and their application in effective Schottky devices	New Journal of Chemistry ISSN: 1144-0546 (print); 1369-9261 (web) RSC IF: 3.3	48, 4, 1837-1849 (2024)

41	Anupam Mudi, Shubham Ray, Manjushree Bera, Malay Dolai, Manik Das, Pronab Kundu, Soumik Laha, Indranil Choudhuri, Bidhan Chandra Samanta, Nandan Bhattacharyya, Tithi Maity	A multi-spectroscopic and molecular docking approach for DNA/protein binding study and cell viability assay of first-time reported pendent azide bearing Cu(II)-quercetin and dicyanamide bearing Zn(II)-quercetin complexes	Heliyon Cell Press / Elsevier IF: 3.6	9, 12, e22712 (2023)
42	M. Maity, R. Maity, T. Sarkar, A. Bhakat, P. Brandao, T. Maity, P. Das, K. Sarkar, B. C. Samanta	In Vitro Insight on Antifungal-Specific Potentiality of Ni(II) Complex against Colletotrichum siamense and Fusarium equisetum Phytopathogens	ACS Appl. Bio Mater. ISSN: 2576-6422 ACS IF: 4.7	6, 11 4836–4845 (2023)
43	Ribhu Maity, Minakshi Maity, Kalyanmoy Jana, Tithi Maity, Nayim Sepay, Bidhan Chandra Samanta	Unveiling the catecholase activities and DNA binding interaction of mono-, di-, and polymeric Cu (ii) complexes derived from heterogeneous Schiff base ligands	New Journal of Chemistry ISSN: 1144-0546 (print); 1369-9261 (web) RSC IF: 3.3	47, 5 2673-2681 (2023)
44	Prasun Acharya, Arun Kuila, Ushasi Pramanik, Venkatesha R Hathwar, Paula Brandao, Saptarshi Mukherjee, Swapan Maity, Tithi Maity, Ribhu Maity, Bidhan Chandra Samanta	Combined theoretical and experimental insights on DNA and BSA binding interactions of Cu(II) and Ni(II) complexes along with the DPPH method of antioxidant assay and cytotoxicity studies	RSC Advances ISSN: 2046-2069 RSC IF: 4.6	13, 11 7632-7644 (2023)
45	Biman Ari, Manik Das, Paola Brandao, Somali Mukherjee, Atish Dipankar Jana, Biplab Koley, Soumik Laha, Md Maidul Islam, Indranil Choudhuri, Nandan Bhattacharya, Bidhan Chandra Samanta , Nitin Chattopadhyay, Tithi Maity	DNA/HSA binding and anticancer properties of pendant acetate bearing mono-nuclear Ni(ii) and bridging acetate bearing di-nuclear Cu(ii) Schiff base complexes: an experimental and molecular docking study	New Journal of Chemistry ISSN: 1144-0546 (print); 1369-9261 (web) RSC IF: 3.3	47, 38 17881-17896 (2023)

46	Subham Ray, Soumik Laha, Manik Das, Uttam Kumar Das, Arijit Bag, Indranil Choudhuri, Nandan Bhattacharya, Bidhan Chandra Samanta , Tithi Maity	Solvent-regulated fluorescence off-on signaling of Ni (II) and Zn (II) with the formation of two mononuclear complexes with an ATP detection ability by Zn (II) assembly	Analyst ISSN: 1364-5528 RSC IF: 3.3	148, 3, 594-608 (2023)
47	Manik Das, Pranabendu Das, Shubham Ray, Arijit Bag, Soumik Laha, Indranil Choudhuri, Nandan Bhattacharya, Bidhan Chandra Samanta , Tithi Maity	Development of a novel AIE active piperazine appended chemosensor for solvent-regulated selective detection of IIB elements [Zn(II), Cd(II), Hg(II)], Cl ⁻ and picric acid via varying emission colors to distinguish one another: environmental and biological applications	New Journal of Chemistry ISSN: 1144-0546 (print); 1369-9261 (web) RSC IF: 3.3	47, 20, 9721-9734 (2023)
48	Prasun Acharya, Ribhu Maity, Arun Kuila, Tithi Maity, Swapan Maity, Nayim Sepay, Bidhan Chandra Samanta	Hydrophobicity induced DNA, BSA binding and biomaterial applications of a heteroleptic Cu(II) complex	Applied Organometallic Chemistry ISSN: 1099-0739 Wiley IF: 3.6	36 (5), e6640 (2022)
49	Arun Kuila, Ribhu Maity, Prasun Acharya, Paula Brandao, Tithi Maity, Nayim Sepay, Bidhan Chandra Samanta	Significant photo degradation of carcinogenic organic dyes by a 1D Supramolecular heteroleptic Cu (II) complex under sunlight irradiation	New Journal of Chemistry ISSN: 1144-0546 (print); 1369-9261 (web) RSC IF: 3.3	46 11804-11811 (2022)
50	Kalyanmoy Jana, Ushasi Pramanik, Kapil S. Ingle, Ribhu Maity, Saptarshi Mukherjee, Susanta K. Nayak, Subhas Chandra Debnath, Tithi Maity, Swapan Maity, Bidhan Chandra Samanta	Copper(II) Complexes with NNN and NNO Schiff Base Ligands as Efficient Photo degradation Agents for Methylene Blue, Preferential BSA Binder and Biomaterial Transplants	Journal of Photochemistry & Photobiology A: Chemistry ISSN: 1010-6030 Elsevier IF: 4.3	422, 113565 (2022)

51	Manik Das, Paola Brandao, Soumya Sundar Mati, Saikat Roy, Anakuthil Anoop, Anjima James, Susmita De, Uttam Kumar Das, Soumik Laha, Jisu Mondal, Bidhan Chandra Samanta , Tithi Maity	Effect of ancillary ligand on DNA and protein interaction of the two Zn (II) and Co (III) complexes: experimental and theoretical study	Journal of Biomolecular Structure and Dynamics ISSN: 0739-1102 (Print) 1538-0254 (Online) Taylor & Francis IF: 2.4	40, 24, 14188-14203 (2022)
52	Manjushree Bera, Manik Das, Malay Dolai, Soumik Laha, Md Maidul Islam, Bidhan Chandra Samanta , Arindam Das, Indranil Choudhuri, Nandan Bhattacharyya, Tithi Maity	DNA/Protein Binding and Apoptotic-Induced Anticancer Property of a First Time Reported Quercetin–Iron(III) Complex Having a Secondary Anionic Residue: A Combined Experimental and Theoretical Approach	ACS Omega ISSN: 2470-1343 ACS IF: 4.3	8, 1, 636-647 (2022)
53	Susmita Das, Manik Das, Soumik Laha, Karunamoy Rajak, Indranil Choudhuri, Nandan Bhattacharyya, Bidhan Chandra Samanta , Tithi Maity	Development of moderately fluorescence active salen type chemosensor for judicious recognition and quantification of Zn(II), Al(III) and SO ₄ ⁼ : Demonstration of molecular logic gate formation and live cell images studies	Journal of Molecular Structure ISSN 0022-2860 Elsevier IF: 4.0	1263, 133214 (2022)
54	Minakshi Maity, Ushasi Pramanik, Venkatesha R Hathwar, Paula Brandao, Saptarshi Mukherjee, Swapan Maity, Ribhu Maity, Tithi Maity, Bidhan Chandra Samanta	Biophysical insights into the binding capability of Cu (II) Schiff base complex with BSA protein and cytotoxicity studies against SiHa	Heliyon Cell Press / Elsevier IF: 3.6	8, 11, e11345 (2022)
55	Manik Das, Somali Mukherjee, Md Maidul Islam, Indranil Choudhuri, Nandan Bhattacharyya, Bidhan Chandra Samanta , Basudeb Dutta, Tithi Maity	Response of Ancillary Azide Ligand in Designing a 1D Copper(II) Polymeric Complex along with the Introduction of High DNA- and HAS-Binding Efficacy, Leading to Impressive Anticancer	ACS Omega ISSN: 2470-1343 ACS IF: 4.3	7, 27, 23276-23288 (2022)

		Activity: A Compact Experimental and Theoretical Approach		
56	Pranabendu Das, Swati Singh Rajput, Manik Das, Soumik Laha, Indranil Choudhuri, Nandan Bhattacharyya, Arindam Das, Bidhan Chandra Samanta , Md Mehboob Alam, Tithi Maity	Easy, selective and colorimetric detection of Zn(II), Cu(II), F ⁻ ions by a new piperazine based Schiff base chemosensor along with molecular logic gate formation and live cell images study	Journal of Photochemistry & Photobiology A: Chemistry ISSN: 1010-6030 Elsevier IF: 4.3	427, 113817 (2022)
57	Manik Das, Mainak Das, Subham Ray, Uttam Kumar Das, Soumik Laha, Partha Pratim Ray, Bidhan Chandra Samanta , Tithi Maity	Synthesis and crystal structures of two tri- and tetra-heterometallic Ni(II)–Mn(II)/Ni(II)–Co(III) complexes from two different Ni(ii)-containing metalloligands: effective catalytic oxidase activity and Schottky device approach	New Journal of Chemistry ISSN: 1144-0546 (print); 1369-9261 (web) RSC IF: 3.3	46, 44 21103-21114 (2022)
58	Soumik Laha, Dibyendu Sathapathi, Mainak Das, Manik Das, Partha Pratim Ray, Arijit Bag, Bidhan Chandra Samanta , Uttam Kumar Das, Tithi Maity	Synthesis, characterization and multi-dimensional application approach for two distinctive tetra nuclear, first-time reported, Fe ³⁺ /Hg ²⁺ and Fe ³⁺ /Cd ²⁺ clusters from a new Fe ³⁺ containing metalloligand	New Journal of Chemistry ISSN: 1144-0546 (print); 1369-9261 (web) RSC IF: 3.3	46, 35 16730-16742 (2022)
59	Dibyendu Satapathi, Manik Das, Karunamoy Rajak, Soumik Laha, Md Maidul Islam, Indranil Choudhuri, Nandan Bhattacharyya, Sinjan Das, Bidhan Chandra Samanta , Tithi Maity	Development of DNA intercalative, HSA binder pyridine-based novel Schiff base Cu(II), Ni(II) complexes with effective anticancer property: A combined experimental and theoretical approach	Applied Organometallic Chemistry ISSN: 1099-0739 Wiley IF: 3.6	36 (1), e6473 (2022)

60	Ribhu Maity, Nayim Sepay*, Ushasi Pramanik, Kalyanmoy Jana, Saptarshi Mukherjee, Swapan Maity, Dasarath Mal, Tithi Maity, Bidhan Chandra Samanta	Exploring the Non-covalent Interactions of Dinuclear Cu(II) Schiff Base Complex With Bovine Serum Albumin and Cell Viability Against SiHa Cancer Cell Line	The Journal of Physical Chemistry B ISSN: 1520-6106 (print); 1520-5207 (web) ACS IF: 2.99	125, 11364-11373 (2021)
61	Manik Das, Biplab Koley, Uttam Kumar Das, Arijit Bag, Soumik Laha, Bidhan Chandra Samanta , Indranil Choudhuri, Nandan Bhattacharyya, Tithi Maity	Piperidine based effective chemosensor for Zn (II) with the formation of binuclear Zn complex having specific Al (III) detection ability in aqueous medium and live cell images	Journal of Photochemistry & Photobiology A: Chemistry ISSN: 1010-6030 Elsevier IF: 4.3	415, 113302 (2021)
62	Manik Das, Somali Mukherjee, Paula Brandao, Saikat Kumar Seth, Santanab Giri, Soumya Sundar Mati, Bidhan Chandra Samanta , Soumik Laha, Tithi Maity	Active Bromoaniline–Aldehyde Conjugate Systems and Their Complexes as Versatile Sensors of Multiple Cations with Logic Formulation and Efficient DNA/HSA-Binding Efficacy: Combined Experimental and Theoretical Approach	ACS Omega ISSN: 2470-1343 ACS IF: 4.3	6, 5, 3659-3674 (2021)
63	Kalyanmoy Jana, Ribhu Maity, Horst Puschmann, Anindita Mitra, Rita Ghosh, Subhas Chandra Debnath, Aparna Shukla, Arun Kumar Mahanta, Tithi Maity, Bidhan Chandra Samanta	A binuclear chloride bridged Cu(II) and a mononuclear Ni(II) complex: Synthesis, crystal structure, photo catalytic and biological studies	Inorganica Chimica Acta ISSN: 0020-1693 Elsevier IF: 2.7	515, 120067-120078 (2021)
64	Manik Das, Somali Mukherjee, Biplab Koley, Indranil Choudhuri, Nandan Bhattacharyya, Pritam Roy, Bidhan Chandra Samanta , Manas Barai, Tithi Maity	Developing novel zinc(II) and copper(II) Schiff base complexes: combined experimental and theoretical investigation on their DNA/protein binding efficacy and anticancer activity	New Journal of Chemistry ISSN: 1144-0546 (print); 1369-9261 (web) RSC IF: 3.3	44, 42 18347-18361 (2020)

65	Kalyanmoy Jana, Somnath Das, Horst Puschmann, Subhas Chandra Debnath, Aparna Shukla, Arun K Mahanta, Maidul Hossain, Tithi Maity, Bidhan Chandra Samanta	Supramolecular self-assembly, DNA interaction, antibacterial and cell viability studies of Cu (II) and Ni (II) complexes derived from NNN donor Schiff base ligand	Inorganica Chimica Acta ISSN: 0020-1693 Elsevier IF: 2.7	487, 128-137 (2019)
66	Kalyanmoy Jana, Somnath Das, Tithi Maity, Maidul Hossain, Subhas Chandra Debnath, Bidhan Chandra Samanta , Saikat Kumar Seth	Synthesis, structure, and biological properties of a Co (II) complex with tridentate Schiff base ligand	Journal of Coordination Chemistry Print ISSN: 0095-8972 Online ISSN: 1029-0389 Taylor & Francis IF: 2.1	71, 10, 1497-1509 (2018)
67	Tithi Maity, Haridas Mandal, Antonio Bauzá, Bidhan Chandra Samanta , Antonio Frontera, Saikat Kumar Seth	Quantifying conventional C–H... π (aryl) and unconventional C–H... π (chelate) interactions in dinuclear Cu(II) complexes: experimental observations, Hirshfeld surface and theoretical DFT study	New Journal of Chemistry ISSN: 1144-0546 (print); 1369-9261 (web) RSC IF: 3.3	42, 12 10202-10213 (2018)
68	Kalyanmoy Jana, Tithi Maity, Subhas Chandra Debnath, Bidhan Chandra Samanta , Saikat Kumar Seth	Octahedral Ni (II) complex with new NNO donor Schiff base ligand: Synthesis, structure and Hirshfeld surface	Journal of Molecular Structure ISSN 0022-2860 Elsevier IF: 4.0	1130, 844-854 (2017)
69	Kalyanmoy Jana, Tithi Maity, Tufan Singha Mahapatra, Pradeep Kumar Das Mohapatra, Subhas Chandra Debnath, Somnath Das, Maidul Hossain, Bidhan Chandra Samanta	A square pyramidal copper(II) complex of a Schiff base ligand: synthesis, crystal structure, antibacterial and DNA interaction studies	Transition Metal Chemistry Print ISSN 0340-4285 Online 1572-901X Springer Nature Link IF: 1.7	42, 1, 69-78 (2017)

70	B C Samanta , T Maity	Effect of red mud waste filler on mechanical and thermal properties of amine functional aniline furfuraldehyde condensate (AFAFFC) modified epoxy composite	Pigment & Resin Technology Print ISSN: 0369-9420 Online ISSN: 1758-6941 Emerald Publishing IF: 1.5	45, 3, 184-190 (2016)
71	T Maity, B C Samanta	Curing study and evaluation of epoxy resin with amine functional chloroaniline acetaldehyde condensate	Pigment & Resin Technology Print ISSN: 0369-9420 Online ISSN: 1758-6941 Emerald Publishing IF: 1.5	44, 1, 19-25 (2015)
72	B C Samanta , T Maity	Effectiveness of amine functional aniline furfuraldehyde condensate as toughening agent for epoxy resin	Pigment & Resin Technology Print ISSN: 0369-9420 Online ISSN: 1758-6941 Emerald Publishing IF: 1.5	41, 6, 344-350 (2012)
73	Tithi Maity, Bidhan Samanta , Ajit Banthia, Sudipta Dalai	Synthesis, characterization, curing reaction of aniline acetaldehyde condensate with epoxy resin	Pigment & Resin Technology Print ISSN: 0369-9420 Online ISSN: 1758-6941 Emerald Publishing IF: 1.5	40, 5, 285-291 (2011)
74	T Maity, B C Samanta	Modification of glass fiber-reinforced epoxy with amine functional aniline formaldehyde condensate (AFAFC)	Journal of adhesion science and technology Print ISSN: 0169-4243 Online ISSN: 1568-5616 Taylor & Francis IF: 3.7	24, 6, 1031-1043 (2010)

75	Bidhan Samanta , Tithi Maity	Effect of modifier and filler concentration on properties of epoxy-red mud waste composite	Pigment & Resin Technology Print ISSN: 0369-9420 Online ISSN: 1758-6941 Emerald Publishing IF: 1.5	38, 6, 380-386 (2009)
76	Tithi Maity, Bidhan Samanta	Amine functional aniline furfuraldehyde condensate cured epoxy resin	Pigment & Resin Technology Print ISSN: 0369-9420 Online ISSN: 1758-6941 Emerald Publishing IF: 1.5	38, 5, 285-289 (2009)
77	Bidhan Samanta , Tithi Maity, A K Banthia	Modification of cured epoxy with amine functional chloroaniline formaldehyde condensate	Pigment & Resin Technology Print ISSN: 0369-9420 Online ISSN: 1758-6941 Emerald Publishing IF: 1.5	38, 3, 143-152 (2009)
78	T Maity, B C Samanta , A K Banthia	Amine functional chloroaniline acetaldehyde condensate-modified epoxy networks	Journal of Applied Polymer Science Print ISSN: 0021-8995 Online ISSN: 1097-4628 Wiley IF: 2.8	110, 6, 3717-3726 (2008)
79	B C Samanta , T Maity, S Dalai, A K Banthia	Toughening of epoxy resin with solid amine terminated poly (ethylene glycol) benzoate and effect of red mud waste particles	Journal of Materials Science & Technology ISSN 1005-0302 Elsevier IF: 14.3	24, 2, 272 (2008)

80	B C Samanta , T Maity, S Dalai, A K Banthia	Influences of amine-terminated oligomers on glass fibre-epoxy composite	Pigment & Resin Technology Print ISSN: 0369-9420 Online ISSN: 1758-6941 Emerald Publishing IF: 1.5	37, 1, 3-8 (2008)
81	T Maity, B C Samanta , S Dalai, A K Banthia	Toughening of epoxy resin with amine functional aniline acetaldehyde condensate	Polymer Engineering & Science Print ISSN: 0032-3888 Online ISSN: 1548-2634 Wiley Subscription Services, Inc., A Wiley Company IF: 3.2	47, 10, 1695-1702 (2007)
82	T Maity, B C Samanta , S Dalai, A K Banthia	Curing study of epoxy resin by new aromatic amine functional curing agents along with mechanical and thermal evaluation	Materials Science and Engineering: A Print ISSN: 0921-5093 Online ISSN: 1873-4936 Elsevier IF: 7.0	464, 1-2, 38-46 (2007)
83	T Maity, B C Samanta , S Dalai, A K Banthia	Synthesis, characterisation and curing studies of BCCOMB	Pigment & Resin Technology Print ISSN: 0369-9420 Online ISSN: 1758-6941 Emerald Publishing IF: 1.5	36, 1, 30-38 (2007)
84	T Maity, B C Samanta , S Dalai, A K Banthia	Synthesis, characterization, and curing of {2, 6-bis-[2-(bis-oxiranylmethyl-amino)-methylbenzyl]-phenyl}-bis-oxiranylmethylamine (BPBOMA)	Journal of Applied Polymer Science Print ISSN: 0021-8995 Online ISSN: 1097-4628	101, 5, 3168-3174 (2006)

			Wiley IF: 2.8	
85	B C Samanta , T Maity, S Dalai, A K Banthia	Mechanical properties of modified epoxy: effect of chain length	Pigment & Resin Technology Print ISSN: 0369-9420 Online ISSN: 1758-6941 Emerald Publishing IF: 1.5	35, 4, 216-223 (2006)
86	T Maity, B C Samanta , S Dalai, A K Banthia	Toughened epoxy with amine functional aniline formaldehyde condensate (AFAFC)	Pigment & Resin Technology Print ISSN: 0369-9420 Online ISSN: 1758-6941 Emerald Publishing IF: 1.5	35, 1, 12-21 (2006)
87	B C Samanta , T Maity, S Dalai, A K Banthia	Amine-terminated poly (ethylene glycol) benzoate (ATPEGB)-modified epoxy: mechanical and thermal properties	Journal of adhesion science and technology Print ISSN: 0169-4243 Online ISSN: 1568-5616 Taylor & Francis IF: 3.0	20, 6, 491-502 (2006)
88	B C Samanta , T Maity, S Kar, A K Banthia	Amine terminated poly (ethylene glycol) benzoate modified epoxy networks	Pigment & Resin Technology Print ISSN: 0369-9420 Online ISSN: 1758-6941 Emerald Publishing IF: 1.5	34, 1, 4-11 (2005)

13. Detail of patents

S.No	Patent Title	Name of Applicant(s)	Patent No.	Award Date	Agency/Country	Status
1	Natural mat fiber reinforced modified epoxy composite	Bidhan Chandra Samanta, Tithi Maity, Goutam Jana, Ribhu Maity	Application Number: 202431044489	Filling date: 08.06.2024	DSTBT, WB	Pending

14. Books/Reports/Chapters/General articles etc.

S.No	Title	Author's Name	Publisher	Year of Publication
1.	Toughening of Epoxy Networks by Some New Synthesized Toughening Agents	Bidhan Chandra Samanta & Tithi Maity	Scholar's Press, Germany	2014 ISBN 978-3-639-71147-9
2.	Safe and Environment friendly Food Additives and Dyes	Edited by Tithi Maity and Bidhan Chandra Samanta	Readers Service, Kolkata - 700075	2012 ISBN 978-81-87891-53-6
3.	Environment Friendly Biodegradable Polymers: Present and Future	Edited by Bidhan Chandra Samanta & Tithi Maity	Mallick Book Centre, Kolkata-73	2016 ISBN : 978-81-926694-0-3
4.	Fluorosis and Arsenicosis: A Global Problem	Edited by Tithi Maity and Bidhan Chandra Samanta	Nectar Kolkata-06	2016 ISBN : 978-93-84241-08-7
5.	Susanhata Krishi Surakshay Kencho Jaibasar	Edited by Bidhan Chandra Samanta	Levant Books India	2018 ISBN : 978-93-88069-10-6
6	Green Engineering and Sustainable Development	Edited by Bidhan Chandra Samanta, Narottam Sutradhar, Tithi Maity	Narosa Publishing House New Delhi Chennai Mumbai Kolkata	2020 ISBN : 978-81-8487-715-1
7	Recent Advancement in Therapeutic Use of Chemical Compounds and Drug Delivery	Edited by Bidhan Chandra Samanta, Narottam Sutradhar	Walnut Publication Bhubaneswar, New Delhi, London	2021 ISBN : 978-93-9078-516-2
8	Recent Development of Chemical Research	Edited by Bidhan Chandra Samanta	Walnut Publication	2022 ISBN : 978-93-

	being Implemented in Biology and Medicine			5574-019-9
9	Edible Mushroom: Type, Spawn production, cultivation and Health care application	Edited by Bidhan Chandra Samanta Narottam Sutradhar	Walnut Publication	2022 ISBN : 978-93-5574-377-0

S.No	Title	Author's Name	Publisher	Year of Publication
10	Organic Farming: Potential Way to Sustain Eco-friendly Ecology of Environment	Edited by Bidhan Chandra Samanta	Walnut Publication	2022 ISBN : 978-93-91741-18-1
11	Reflection (A Yearly Publication of Science Departments, Mugberia Gangadhar Mahavidyalaya)	Edited by Bidhan Chandra Samanta	Walnut Publication	2023 ISBN : 9788119232796
12	Sustainable Research Practices in Chemical Science	Edited by Bidhan Chandra Samanta	Walnut Publication	2024 e- book: 978-93-5911-910-6
13	Incorporation of elastomeric secondary phase into epoxy matrix influences mechanical properties of epoxy coatings IN “Handbook of Modern Coating Technologies Fabrication Methods and Functional Properties” (Volume 1)	B. C. Samanta and T. Maity	Elsevier	2021 ISBN: 978-0-444- 63240-1

15. Any other Information (maximum 500 words):

Dr. Samanta is now working as an Associate Professor and Head, Department of Chemistry, Mugberia Gangadhar Mahavidyalaya, Bhupatinagar, Purba Medinipur, West Bengal, India. He obtained his B.Sc. degree from Midnapore College and M.Sc. degree with organic chemistry specialization from the Department of Chemistry & Chemical Technology, Vidyasagar University, Paschim Medinipur, West Bengal, India. He did his research work in the Materials Science Centre, IIT, Kharagpur during the period 2002-2007 and received Ph.D. degree from Vidyasagar University in 2008. His research interest includes polymer curing, toughening, chelate polymer synthesis, synthesis of Schiff base ligand and their transition metal complexes, antibacterial, cytotoxicity and DNA/BSA binding studies. One scholar has obtained PhD degree under his co-supervision from University of Kalyani. 6 scholars are now working in his lab under his supervision. He completed three minor research projects (2UGC) and another one from DSTBT, Govt. of West Bengal. One collaborative research project is ongoing under UGC DAE, Kolkata Center. He is associated as life member with Indian Science Congress Association and with The Society for Polymer Science. He is Professional Member of Emerald Literati Network, a network of author's editors and researchers, unique in academic publishing. He received "Institute Scholarship" from Indian Institute of Technology, Kharagpur, 2002. He is engaged in various Academic and Administrative bodies of Mugberia Gangadhar Mahavidyalaya and has been serving the college since 19th December, 2006.