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**Collaborative Research Activities with Prof. Pralay Maity, Materials Science Centre,
IIT, BHU**



पदार्थ विज्ञान एवं प्रौद्योगिकी स्कूल
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भारतीय प्रौद्योगिकी संस्थान
INDIAN INSTITUTE OF TECHNOLOGY
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**Dr. Pralay Maity, Ph.D.
Professor**

Dated: December 02, 2022

To whom it may concern

This is to mention that Dr. Bidhan Chandra Samanta, Associate Professor, Department of Chemistry of Mugberia Gangadhar Mahavidyalaya, West Bengal is doing collaborative works on biomedical applications of inorganic/bioinorganic materials since 2019.

Prof. Pralay Maity

Tel. & Fax: +91-542-2368707; Email: pmaiti.mst@itbhu.ac.in

Still now we have published 6 research papers in reputed international journals from our collaborative works and the screen shot of these publications are shown below:

The image displays two screenshots of a ScienceDirect article page. The top screenshot shows the article title, authors, and a list of recommended articles. The bottom screenshot shows the article metrics, including citations, citation indexes, captures, and readers, along with the abstract section.

Article Title: Copper(II) complexes with NNN and NNO Schiff base ligands as efficient photodegradation agents for methylene blue, preferential BSA binder and biomaterial transplants

Journal: Journal of Photochemistry and Photobiology A: Chemistry

Volume: 422, 1 January 2022, 113565

Authors: Kalyanmoy Jana^a, Ushasi Pramanik^b, Kapil S. Ingle^c, Ribhu Maity^d, Saptarshi Mukherjee^b, Susanta K. Nayak^e, Subhas Chandra Debnath^a, Tithi Maity^f, Swapan Maity^f, Bidhan Chandra Samanta^d

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Exploring the Noncovalent Interactions of the Dinuclear Cu(II) Schiff Base Complex with Bovine Serum Albumin and Cell Viability against the SiHa Cancer Cell Line

Ribhu Maity, Nayim Sepay*, Ushasi Pramanik, Kalyanmoy Jana, Saptarshi Mukherjee, Swapan Maity, Dasarath Mal, Tithi Maity, and Bidhan Chandra Samanta*

Cite this: *J. Phys. Chem. B* 2021, 125, 41, 11364–11373
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Inorganica Chimica Acta
 Volume 487, 1 March 2019, Pages 128–137

Research paper

Supramolecular self-assembly, DNA interaction, antibacterial and cell viability studies of Cu(II) and Ni(II) complexes derived from NNN donor Schiff base ligand

Kalyanmoy Jana^a, Somnath Das^b, Horst Puschmann^c, Subhas Chandra Debnath^a, Aparna Shukla^d, Arun K. Mahanta^d, Maidul Hossain^b, Tithi Maity^a, Bidhan Chandra Samanta^a

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DOI: [10.1039/D2RA08341H](#) (Paper) *RSC Adv.*, 2023, **13**, 7632-7644

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[†]

Prasun Acharya^a, Arun Kuila^a, Ushasi Pramanik^b, Venkatesha R. Hathwar^c, Paula Brandao^d, Saptarshi Mukherjee^e, Swapan Maity^f, Tithi Maity^g, Ribhu Maity^h and Bidhan Chandra Samanta^{h,*}

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Research article

Biophysical insights into the binding capability of Cu(II) schiff base complex with BSA protein and cytotoxicity studies against SiHa

Minakshi Maity^a, Ushasi Pramanik^b, Venkatesha R. Hathwar^c, Paula Brandao^d, Saptarshi Mukherjee^e, Swapan Maity^f, Ribhu Maity^g, Tithi Maity^h, Bidhan Chandra Samanta^{h,*}

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HIGHLIGHTS

- Cu(II) Schiff base with four co-ordinations forms distorted square planar geometry.
- The complex can act as promising BSA quencher.
- Cytotoxicity of the complex against SiHa cell by MTT assay.
- Potential as an anti-cancer drug for Escherichia coli and normal cells.

GRAPHICAL ABSTRACT

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