

Curriculum Vitae

Dr. Prafullya Kumar Mudi

Assistant Professor
Department of Chemistry
University of Burdwan
Burdwan 713104
Email: pkmudi@chem.buruniv.ac.in, prafullya642@gmail.com
Tel: +916290287452



Personal Details:

C/O: Kaman Chandra Mudi
Gender: Male
Nationality: Indian
Date of Birth: 2nd January, 1994
Marital Status: Unmarried

Permanent Address: Raigara Mudidih, Raigara, Barabazar, Purulia 723153, West Bengal, India.

Official Address: Department of Chemistry, University of Burdwan, Golapbag, Burdwan 713104, West Bengal, India.

Google Scholar: <https://scholar.google.com/citations?user=U-sogwUAAAAJ&hl=en&oi=ao>

Research Gate: <https://www.researchgate.net/profile/Prafullya-Kumar-Mudi>

Academic details:

- ❖ Ph.D.: 2022 University of North Bengal, Darjeeling 734013, West Bengal, India (Supervisor: Prof. B. Biswas)
- ❖ M.Sc.: 2016 Indian Institute of Technology Kharagpur (IIT KGP), Kharagpur 721302, West Bengal, India.
- ❖ B.Sc.: 2014 Raghunathpur College (Under Sidho-Kanho-Birsha University) Purulia, West Bengal, India.

Academic Achievements:

- ❖ **2014:** Joint Admission Test for Masters (JAM), conducted by Indian Institute of Technology Kanpur.

Awards & Scholarships:

- ❖ **WEST BENGAL MERIT-CUM-MEANS SCHOLARSHIP** from Government of West Bengal in (10+2) class (2009-2011), B.Sc. (2011-2014) and M.Sc. (2014-2016).
- ❖ **2015:** Junior Research Fellowship (JRF) and Lectureship, National Eligibility Test (NET) held on December 2015, conducted by the joint CSIR-UGC, Govt. of India.
- ❖ **2016:** Junior Research Fellowship (JRF) and Lectureship, National Eligibility Test (NET) held on June 2016, conducted by the joint CSIR-UGC, Govt. of India.
- ❖ **2017:** Junior Research Fellowship (JRF) and Lectureship, National Eligibility Test (NET) held on December 2017, conducted by the joint CSIR-UGC, Govt. of India.

Professional and Carrier Details:

- ❖ Assistant Professor (17th May 2023- Present): Department of Chemistry, University of Burdwan, Burdwan, West Bengal, India.
- ❖ Assistant Professor (13th December 2019 - 16th May 2023): Department of Chemistry, Government General Degree College at Pedong-734311, Kalimpong, West Bengal, India.
- ❖ Assistant Master (19th March 2019 - 12th December 2019): Integrated Government School at Joshpur, Purulia, West Bengal, India.

Administrative Experience:

- ❖ Head of the Department of Chemistry, Government General Degree College at Pedong, Kalimpong (6th December 2022 to 22th February 2023).

Research Interest:

- ✓ Synthetic Coordination Chemistry
- ✓ Bio-Inspired Redox Catalysis using Transition Metal Complexes
- ✓ Supramolecular Chemistry
- ✓ Development of Catalyst for a Homogeneous Organic Transformation
- ✓ Bio-Inorganic Chemistry
- ✓ Synthesis of Smart Molecules and Study Their Electrical Transport & Aggregation Properties.

Teaching Area:

- Main Group Chemistry
- Transition and Non-Transition Elements
- Bio-Inorganic Chemistry
- Coordination Chemistry
- Atomic Spectrometry in Inorganic Analysis
- Inorganic Photochemistry
- Inorganic Materials

Research Publication:

1. **Prafullya Kumar Mudi**, Rajani Kanta Mahato, Mayank Joshi, Suwendu Paul, Angshuman Roy Choudhury, Bhaskar Biswas*, Synthesis and Structural Characterization of a Linkage Isomer to a Mononuclear Nickel (II) Complex: Experimental and Computational Depiction of Phosphoesterase Efficiency, *Journal of Molecular Structure*, **1200 (2019) 114156**.
2. **Prafullya Kumar Mudi**, Nilaj Bandopadhyay, Mayank Joshi, Madhusudan Shit, Suwendu Paul, Angshuman Roy Choudhury, Bhaskar Biswas*, Schiff Base Triggering Synthesis of Copper (II) Complex and its Catalytic Fate towards Mimics of Phenoxazinone Synthase Activity, *Inorganica Chimica Acta*, **505 (2020) 119468**.
3. **Prafullya Kumar Mudi**, Rajani Kanta Mahato, Mayank Joshi, Madhusudan Shit, Angshuman Roy Choudhury, Hari Sankar Das, Bhaskar Biswas*, Copper (II) Complexes with a Benzimidazole Functionalized Schiff base: Synthesis, Crystal Structures and Phenoxazinone synthase Activity, *Journal of Applied Organometallic Chemistry*, **(2021) e6211**.
4. **Prafullya Kumar Mudi**, Ajit Das, Nagendranath Mahata, Bhaskar Biswas*, Head-to-Tail Interlocking Aromatic Rings of a Hydrazine Functionalized Schiff Base for the development of Nano-aggregates with blue emission: Structural and Spectroscopic Characteristics, *Journal of Molecular Liquids*, **340 (2021) 117193**.
5. **Prafullya Kumar Mudi**, Labhini Singla, Anil Chamuah, Sanjib Bhattacharya, Angshuman Roy Choudhury, Bhaskar Biswas,* Schiff Base Driven Denticity-Fluctuated Structural Assortment of Zinc-pseudohalide Complexes: Synthesis, Structures and

Electrical Transport Properties, *Crystal Engineering Communications*, **24** (2022) 2418-2428.

6. **Prafullya Kumar Mudi**, Rajani Kanta Mahato, Himanshu Verma, Subhra Jyoti Panda, Chandra Sekhar Purohit, Om Silakari, Bhaskar Biswas,* In Silico Anti-SARS-CoV-2 Activities of Five-membered Heterocycle-substituted Benzimidazoles, *Journal of Molecular Structure*, **1261** (2022) 132869.
7. **Prafullya Kumar Mudi**, Ayan Kumar Mahanty, Muddukrishnaiah Kotakonda, Sunnapu Prasad, Subires Bhattacharyya, Bhaskar Biswas*, A benzimidazole scaffold as a promising inhibitor against SARS-CoV-2, *Journal of Biomolecular Structure and Dynamics*, (2021) <https://doi.org/10.1080/07391102.2021.2024448>.
8. **Prafullya Kumar Mudi**, Smriti Pradhan, Amrita Sahu, Dipanwita Saha, Bhaskar Biswas*, Synthesis, X-ray Structure and Evaluation of Bactericidal Activity of an o-vanillin Functionalized Schiff Base, *Journal of Applied Microbiology: Theory & Technology*, **2** (2021) 18-28.
9. **Prafullya Kumar Mudi**, Chanchal Kumar Pal, Bhaskar Biswas*, Synthesis, Supramolecular Architecture and Fluorescence Property of a Mixed Ligand 1D Pb (II) Coordination Polymer, *European Journal of Chemistry*, **10** (2019) 125-130. (I.F. 0.5439).
10. Rajani Kanta Mahato, **Prafullya Kumar Mudi**, Mayukh Deb, Bhaskar Biswas*, A Direct Metal-free Synthetic Approach for the Efficient Production of Privileged Benzimidazoles in water medium under Aerobic Condition, *Asian Journal of Organic Chemistry*, **10** (2021) 1-11.
11. Madhusudan Shit, Suwendu Maity, Sachinath Bera, **Prafullya Kumar Mudi**, Bhaskar Biswas, Thomas Weyhermueller, Prasanta Ghosh*, Nickel (II) di-aqua complex containing water cluster: Synthesis, X-ray structure and catecholase activity, *New Journal of Chemistry*, **45** (2020) 2221-2227.
12. Nilaj Bandopadhyay, Krishnendu Paramanik, **Prafullya Kumar Mudi**, Gayetri Sarkar, Muddukrishnaiah Kotakonda, Madhusudan Shit, Bhaskar Biswas*, Hari Sankar Das, A thiomethyl-substituted imidazolyl imine functionalized copper(II) complex: synthesis, structural characterization, phenoxazinone synthase mimics and biological activities, *Polyhedron*, **218** (2022) 115783.

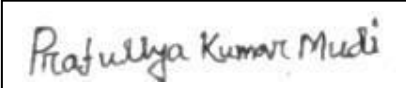
13. Ajit Das, Anita Sahu, **Prafullya Kumar Mudi**, Suwendu Paul, Nagendranath Mahata, Bhaskar Biswas*, Synthesis and phenoxazinone synthase activity by a cobalt (II) complex, *Journal of Indian Chemical Society*, **96 (2019) 255-262.**

Seminar & Symposium Attended:

- **National Seminar on “Frontiers in Chemistry 2020”** Organized by Department of Chemistry, University of North Bengal, Darjeeling, India on 5th March 2020 (**Presented a Poster**).
- **“International Year of the Periodic Table of Chemical Elements- 2019”** Organized by Department of Chemistry, University of North Bengal, India 22nd -23rd November 2019 (**Presented a Poster**).
- **International Seminar on “Frontiers in Chemistry 2019”** Organized by Dept. of Chemistry, University of North Bengal & CRSI North Bengal Local Chapter, Darjeeling, India on 22nd May 2019 (**Presented a Poster**).
- **International Seminar on “Frontiers in Chemistry 2018”** Organized by Dept. of Chemistry, University of North Bengal & CRSI North Bengal Local Chapter, Darjeeling, India on 27th August 2018 (**Presented a Poster**).
- Seven days hands on workshop, KARYASHALA (Physical Mode) on the special occasions of Accelerate Vigyan **“Synthesis, Characterization and understanding of Smart Materials Employing Advanced Scientific Equipments and Computational Modeling (04th – 11th July)”** sponsored by SERB INDIA organized by Department of Chemistry, University of North Bengal, on July 2022.

Declaration:

I hereby declare that all the particulars given above are true and correct to the best of my knowledge and belief.



.....
Prafullya Kumar Mudi