Atanu Dey

Research Scholar
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Personal Statement

I am a motivated research scholar currently working in the field of photoredox catalysis. I am highly enthusiastic about exploring new reaction pathways and understanding reaction mechanisms in photoredox chemistry. Through my research I aim to contribute to environmentally friendly and innovative chemical processes. I am eager to learn advanced experimental techniques, collaborate with researchers from different disciplines and apply my knowledge to solve challenging problems in modern chemistry.

Academic Qualification

DEGREE	INSTITUTION	MARKS	YEAR
Master of Science	University of Kalyani	CGPA: **9.06/10**	2022-2024
Bachelor of Science	Krishnath College (University of Kalyani)	CGPA: **9.36/10**	2019-2022
Higher Secondary (12^{th} grade)	Beldanga C.R.G.S High School	MARKS: **89.4%**	2019
Matriculation (10^{th} grade)	Sargachi Ramakrishna Mission High School	MARKS: **91.42%**	2017

Research Experience:

- Currently working in **RedOx Lab**

  Principle Investigator: - Prof. Suman De Sarkar

  Currently working on Photoredox Catalysis

- **Master's Project** Duration-6 months

  Supervisor: - Prof. Manoranjan Jana, Department of Chemistry, University of Kalyani.

  Topic: - Studies and Synthesis of Chromene Derivatives from Chalcone using Amberlyst A21 Catalyst in Ethanol Medium.

  - Designed chromene derivatives at ambient condition using A21 catalyst
  - Explored substrate scope
  - Analyzed structural outcomes via spectroscopic techniques (NMR, IR)

- **Review Project**

  Supervisor: - Prof. Manoranjan Jana, Department of Chemistry, University of Kalyani.

  Topic: - Synthesis of Chromene Nucleus and its Derivatives by Green Method

- Investigated the synthesis of different types of chromene derivatives using green methods
- Summarized mechanistic pathways and catalyst strategies
- Delivered presentation as a part of M.Sc. curriculum

- **Bachelor's Project**

  Supervisor: - **Dr. Asit Kumar Das**, Department of Chemistry, Krishnath College

  Topic: - Dissertation on Palladium-Catalyzed Suzuki-Miyaura Cross Coupling Reaction.

  The main objective of this project is to provide a closer look at the Suzuki–Miyaura cross coupling reaction

Academic Achievements

- Secured **CSIR-JRF with rank 19** in **JOINT CSIR-UGC NET-JUNE 2025** organised by **NTA** among 32987 students.
- Secured **NET LS with rank 4** in **JOINT CSIR-UGC NET-DECEMBER 2024** organised by **NTA** among 39452 students.
- Secured **AIR-378** in **GATE EXAM** organised by **IIT Roorkee** (2025).
- Secured **AIR-1062** in Joint-Admission Test for Masters (IIT-JAM 2022).
- Qualified the **CUET (PG) 2022** examination conducted by **NTA** with a score of 232 out of 400.
- Shortlisted for M.Sc. admission counselling at the **University of Hyderabad**.

Skills

- **Software**: - ChemDraw, Microsoft Office.
- **Laboratory Skills: -** Organic and Inorganic Synthesis, Quantitative Analysis, Column Chromatography, Thin Layer Chromatography, Preparative TLC.
- **Characterization Techniques**: - Data Interpretation from UV/Visible, IR, NMR spectroscopy.

Extra-Curricular Activities

- **Recitation: -** Completed 7th year (Abritti Ratnabhushan) degree program in recitation organized by Suro Bharati Sangeet Kala Kendra

- Awarded gold medal in the 5th year diploma examination organized by Suro Bharati Sangeet Kala Kendra (Murshidabad Zonal Convocation).
- Awarded silver medal in the 7th Year diploma examination organized by Suro Bharati Sangeet Kala Kendra (Murshidabad Zonal Convocation)

- **Painting: -** Completed 7th year (Ankan Ratnabhushan) degree program in painting organized by Suro Bharati Sangeet Kala Kendra