

**Ms. Paramita Datta**

**Senior Research Fellow**

**Supervisor- Prof. Swadhin Kumar Mandal**

**Research Interest- *Metal-free photo-redox catalysis***

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***A brief overview about myself:***

I joined Prof. Mandal's lab in August 2018 after cracking CSIR NET-June- 2017. I completed my B.Sc with honors in Chemistry from Barasat Government College, then qualified IIT JAM 2016, and did M.Sc from Indian Institute of Technology Kanpur. I am working on developing transition metal-free various organic transformations (including gas activation), taking advantage of the energetically accessible non-bonding molecular orbital (NBMO) of phenalenyl-based molecules under photoirradiation as a metal-free catalyst. I am expertise in organic synthesis and catalysis and well-experienced in performing catalytic reactions under inert conditions (inside the glovebox and using the Schlenk line). I actively participated in several international conferences, such as the 30<sup>th</sup> International Conference on Organometallic Chemistry- 2024, the CRSI 27<sup>th</sup> National Symposium organized by IISER Kolkata (26<sup>th</sup>-29<sup>th</sup> September 2021), the International Conference in Organometallics and Catalysis-2023 in Goa and the BRICS international symposium between India, China, and Russia in January 2020 in India during my PhD tenure. Currently, I defended my thesis in January 2025.

***List of publications:***

- Datta, P.; Goswami. T.; Kandoth, N.; Banik, A.; Ahmed, J.; Bhaskaran, A. S.; Saha, R.; Kuniyil, R.; Ghosh, H. N.; Mandal, S. K. *ChemPhotoChem*, **2023**, 7, e202300033.
- Datta, P.; Roy, D.; Jain, D.; Kumar S.; Sil, S.; Bhunia A.; Dasgupta, J.; Mandal, S. K. *ACS Catal.* **2024**, 14, 3420–3433.
- Kumar, S<sup>#</sup>; Datta, P<sup>#</sup>; Bhunia, A.; Mandal, S. K. *Catal. Sci. Technol.* **2024**, 14, 174-182.
- Ahmed, J.; Datta, P.; Das, A.; Jomy, S.; Mandal, S. K. *Chem. Sci.* **2021**, 12, 3039–3049.
- Banik, A.; Datta, P.; Mandal, S. K. *Org. Lett.* **2023**, 25, 1305–1309.