Dr. Siuli Das

INSPIRE Faculty Fellow

Research Interest- ***Coordination Chemistry and Homogenous Catalysis***

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A brief overview about myself:

I work in collaboration with Prof. Mandal since June 2024. I completed my B.Sc with honours in Chemistry from Lady Brabourne College and M.Sc from IIEST Shibpur. I did my Ph. D from IIEST Shibpur under the guidance of Dr. Nanda Dulal Paul. After that in 2022, I moved for my postdoctoral studies with Prof. Jarl Ivar Van der Vlugt at University of Oldenburg, Germany. I am expertised in organic and inorganic synthesis, well-experienced in performing homogenous catalytic reactions under inert conditions (inside the glovebox and using the Schlenk line). I have also presented my research work in various national and international seminars. Currently I am working on developing the coordination chemistry of transition and non-transition metals with abnormal N-Heterocyclic carbene derived mesoionic system as the ligand backbone. Application of the synthesised complexes towards small molecule activation and homogenous catalysis will also be studied.

List of publications:

- Das, S.; Buschermöhle, J.; Zant, D. W.; Schmidtmann, M.; van der Vlugt, J. I. *Chem. Eur. J.* **2024**, e202400044.
- Pal, S.; Das, S.; Chakraborty, S.; Khanra, S.; Paul, N. D. *J. Org. Chem.* **2023**, *88*, 3650–3665.
- Das, S.; Mondal, R.; Guin, A. K.; Paul, N. D. *Org. Biomol. Chem*., **2022**, *20*, 3105-3117.
- Sinha, S.; Muhammed, S. E., Mondal, R.; Siuli Das, Manamel, L. T.; Brandão, P.; de Bruin, B.; Das, B. C.; Paul, N. D. *J. Am. Chem. Soc.* **2022**, *144*, 20442–20451.
- Das, S.; Mondal, R.; Chakraborty, G.; Guin, A. K.; Das, A.; Paul, N. D. *ACS Catal*. **2021**, *11*, 7498−7512.
- Sinha, S.; Das, S.; Mondal, R.; Mandal, S.; Paul, N. D. *Dalton Trans.* **2020**, *49*, 8448-8459.
- Mondal, R.; Sinha, S.; Das, S.; Chakraborty, G.; Paul, N. D. *Adv. Synth. Catal.* **2020**, *362*, 594-596.
- Das, S.; Sinha, S.; Samanta, D.; Mondal, R.; Chakraborty, G.; Brandão, P.; Paul, N. D. *J. Org. Chem.* **2019**, *84*, 10160–10171.
- Sikari, R.; Sinha, S.; Das, S.; Saha, A.; Chakraborty, G.; Mondal, R.; Paul, N. D. *J. Org. Chem.* **2019**, *84*, 4072-4085.
- Chakraborty, G.; Sikari, R.; Das, S.; Mondal, R.; Sinha, S.; Banerjee, S.; Paul, N. D. *J. Org. Chem.* **2019**, *84*, 2626–2641.

- Sikari, R.; Sinha, S.; Chakraborty, G.; Das, S.; van Leest, N. P.; Paul, N. D. *Adv. Synth. & Catal.* **2019**, *361*, 4342–4353.
- Sinha, S.; Sikari, R.; Sinha, V.; Jash, U.; Das, S.; Brandão, P.; Demeshko, S.; Meyer, F.; de Bruin, B.; Paul N. D. *Inorg. Chem.* **2019**, *58*, 1935-1948.
- Das, S.; Sinha, S.; Jash, U.; Sikari, R.; Saha, A.; Barman, S.; Brandão, P.; Paul, N. D. *Inorg. Chem.* **2018**, *57*, 5830–5841.
- Parua, S.; Sikari, R.; Sinha, S.; Das, S.; Chakraborty, G.; Paul, N. D. *Org. Biomol. Chem.* **2018**, *16*, 274-284.
- Parua, S.;[#] Das, S.;[#] Sikari, R.; Sinha, S.; Paul, N. D. *J. Org. Chem.* **2017**, *82*, 7165–7175. ([#]equal contribution).
- Sinha, S.; Das, S.; Sikari, R.; Parua, S.; Brandão, P.; Demeshko, S.; Meyer, F.; Paul, N. D. *Inorg. Chem.* **2017**, *56*, 14084–14100.
- Sikari, R.; Sinha, S.; Jash, U.; Das, S.; Brandão, P.; de Bruin, B.; Paul, N. D. *Inorg. Chem.* **2016**, *55*, 6114-6123.

Awards/Recognition:

- *National Postdoctoral Fellowship (pursued for two months)*
- *CSIR RA Position (did not accept)*
- *INSPIRE Faculty Fellowship (2024)*