

Dr. Swadhin K Mandal, FRSC

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Research Keywords

Transition metal mimicking catalysis/Metal free catalytic CO₂ reduction/Metal-free C-C cross coupling catalysis/Catalysis by low-valent Main Group elements.

PhD Degree Obtained: 9, Current PhD students: 12, MS Thesis: 15

Academic and Professional Career:

- Current Position: Professor (since 2018 October), Department of Chemical Sciences, IISER Kolkata and
- Served as the Head of the Department of Chemical Sciences, IISER Kolkata from March 2018-August 2020.
- Associate Professor (2013, December–2018, October): Department of Chemical Sciences, Indian Institute of Science Education and Research Kolkata
- Assistant Professor (2007 July-2013 December): Department of Chemical Sciences, Indian Institute of Science Education and Research Kolkata
- Alexander von Humboldt Postdoctoral Fellow (2006-2007) with Prof Herbert W Roesky: University of Goettingen, Germany.
- Postdoctoral Fellow (2002- 2006) with Prof. Robert C Haddon: University of California, Riverside, USA.
- Ph.D. (1996-2002): Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bangalore, India. Supervisor: Prof. S S Krishnamurthy
- M.Sc. (Chemistry, 1994-1996): University of Kalyani, Kalyani, India. (Secured 1st rank in the University)
- B.Sc. (Chemistry, 1990-1994): University of Kalyani, Kalyani, India. (Secured 3rd rank in the University)

Awards and Professional Recognition:

- Awarded with the *Friedrich Wilhelm Bessel Research Award, 2020* by Alexander von Humboldt Foundation, Germany
- *Shanti Swarup Bhatnagar Prize* in Chemical Sciences for 2018
- Invited as **Editorial Advisory Board member of 'Chemical Science'** published as the flagship journal by Royal Society of Chemistry during 2020-2022
- Invited as the *Visiting Professor at IIT Mumbai* during 2020-2022
- Invited as **Editorial Advisory Board member of the journal 'Inorganic Chemistry'** published by the American Chemical Society during 2019-2022

- *Fellow of Royal Society of Chemistry (FRSC)* under the "Leaders in the Field" category.
- Awarded with *SERB Distinguished Investigator Award*.
- *CRSI bronze medal*, 2019
- Editorial advisory board member *J. Chem Sci.* since 2018
- *YIM-Young Scientist Award -2012* by *YIM-Boston* held during 6-8th October, 2012 at MIT, Boston, USA.
- Served as **Editorial Advisory Board member of the journal ‘Organometallics’** published by the American Chemical Society during 2013-2015
- *Alexander von Humboldt postdoctoral fellowship* (2006).

No of Publications: 105

Selected Pubs:

- Sreejyothi P *et al. Chemical Science, 2020* **11**, 10571-10593
- Sau *et al., Chem. Soc. Rev. 2020, 49*, 1233-1252
- Bhunia *et al. Chemical Science, 2020, 11*, 1848-1854
- Gupta *et. al. Nature Biomed. Eng. 2019, 3*, 917–929
- Bhunia *et al. Chemical Science, 2019, 10*, 7433-7441
- Sau *et al. Chemical Science, 2019, 10*, 1879-1884.
- Ahmed *et al. J. Am. Chem. Soc. 2018, 140*, 8330-8339
- Vijaykumar *et al. Chemical Science, 2018, 9*, 2817-2825
- Hota *et al. ACS Catalysis 2018, 8*, 11999–12003
- Ahmed *et al. Chemical Science, 2017, 8*, 7798-7806.
- Mukherjee *et al. Acct. Chem. Res. 2017, 50*, 1679–1691.
- Gupta *et al. Chemical Science, 2017, 8*, 2387-2395.
- Sau *et al. Angew. Chem. Int. Ed. 2016, 55*, 15147 –15151.
- Pariyar *et al. J. Am. Chem. Soc. 2015, 137*, 5955-5960
- Raha Roy *et al. ACS Catalysis 2014, 4*, 4307–4319
- Raman *et al. Nature, 2013, 493*, 509-513
- Santra *et al. ACS Catalysis 2013, 3*, 2776–2789.
- Mukherjee *et al. Angew. Chem. Int. Ed. 2011, 50*, 3968–3972