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Education

- PhD (2011): Indian Association for the Cultivation of Science, INDIA (Advisor: Prof. Brindaban C. Ranu)
- MSc (2006): University of Calcutta, INDIA
- BSc (2004): University of Calcutta, INDIA

Professional Positions

1. Feb 18, 2023 to date: Principal Scientist, Inorganic Material and Catalysis Division, CSIR-Central Salt & Marine Chemicals Research Institute, Bhavnagar, INDIA
2. Feb 18, 2019 to Feb 17, 2023: Senior Scientist, Inorganic Materials and Catalysis Division, CSIR-Central Salt & Marine Chemicals Research Institute, Bhavnagar, INDIA
3. May 2016 to January 2019: DST-INSPIRE Faculty, Inorganic Materials and Catalysis Division, CSIR-Central Salt & Marine Chemicals Research Institute, Bhavnagar, INDIA
4. Aug 2013 to April 2016: JSPS Postdoctoral Fellow and Postdoctoral Associate, Chubu University, JAPAN (Advisor: Prof. Hisashi Yamamoto)
5. May 2011 to July 2013: Postdoctoral Fellow, Technical University Kaiserslautern, GERMANY (Advisor: Prof. Lukas J. Goossen)

Key Publications

1. A. K. Singh, S. S. Chauhan, S. Bhadra* Copper Catalyzed Catalytic Cascade Synthesis of Cyanohydrin Esters via water/O₂-Induced Cyanide Transfer from K₃Fe(CN)₆, *Chem. Commun.* **2023**, 59, 11544-11547.
2. [A. Gupta, A. Saha, A. Rahaman, J. Kumar, E. Suresh, B. Ganguly,* S. Bhadra* Cooperativity between the Substrate and Ligand in Palladium-Catalyzed Allylic Alkylation Using 1-Aryl-1-propynes, *J. Org. Chem.* **2022**, 87, 10366–10371.](#)
3. [J. Kumar, A. K. Singh, A. Gupta, S. Bhadra* Enhancing the Extent of Enolization for \$\alpha\$ -C–H Bonds of Aliphatic carboxylic Acid Equivalents via Ion Pair Catalysis: Application toward \$\alpha\$ -Chalcogenation, *J. Org. Chem.* **2022**, 87, 6330–6335.](#)
4. [A. K. Singh, J. Kumar, S. Bhadra* Catalytic Direct Cyanomethylenation of C\(sp³\)–H Bonds via a One-Step Double C–C Bond Formation, *J. Org. Chem.* **2022**, 87, 1512–1517.](#)
5. [J. Kumar, E. Suresh, S. Bhadra* Catalytic direct \$\alpha\$ -amination of arylacetic acid synthons with anilines, *J. Org. Chem.* **2020**, 85, 13363–13374.](#)