

FACULTY PROFILE

DR. MITHUN SARKAR, W.B.E.S

M.SC. CHEMISTRY. PH.D.

ASSISTANT PROFESSOR AND HEAD

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A. ACADEMIC QUALIFICATIONS

- **Ph.D** : Indian Institute of Technology, Kanpur
- **M.Sc** : Indian Institute of Technology, Kharagpur
- **B.Sc** : Ramakrishna Mission Residential College, Narendrapur

B. PROFESSIONAL HIERARCHY

| NAME OF THE POST/DESIGNATION | INSTITUTION | NATURE OF POST |
|------------------------------|------------------------|----------------|
| Assistant Professor | Kaliganj Govt. College | Permanent |

C. PRESENT ADMINISTRATIVE POST HOLD:

- **Head, Department of Chemistry**

D. AREA OF RESEARCH INTEREST

- **Organometallic Chemistry and Catalysis**

E.TOPIC IN PH.D

Transition Metal Complexes Containing Metal–Metal Bonds: Application in C–H Bond Activation and Functionalization

F. RESEARCH & PUBLICATIONS

PAPERS IN PEER-REVIEWED/ INDEXED RESEARCH JOURNALS

- “Olefin Oxygenation by Water on an Iridium Center ” T. Ghatak, M. Sarkar, S. Dinda, I. Dutta, S. M. W. Rahaman, J. K. Bera, *J. Am. Chem. Soc.* 2015, **137**, 6168.
- “Amide-Functionalized Naphthyridines on a Rh^{II}–Rh^{II} Platform: Effect of Steric Crowding, Hemilability and Hydrogen-Bonding Interactions on the Structural Diversity and Catalytic Activity of Dirhodium(II) Complexes” M. Sarkar, P. Daw, T. Ghatak, J. K. Bera, *Chem. Eur. J.* 2014, **20**, 16537.
- “Room Temperature C–H bond Activation on a Pd^I–Pd^I Platform” M. Sarkar, H. Doucet, J. K. Bera, *Chem. Commun.* 2013, **49**, 9764.
- “Pd–Catalyzed Regioselective Oxidative C–H Functionalization of Substituted Imidazo[1,2-*a*]quinoline: Structural Characterization of Binuclear Cyclometalated Intermediates” M. Sarkar, J. K. Bera, *Proc. Natl. Acad. Sci., India, Sect. A Phys. Sci.* 2014, **84**, 227.
- “Reactions of Acids with Naphthyridine–Functionalized Ferrocenes: Protonation and Metal Extrusion” N. Sadhukhan, M. Sarkar, T. Ghatak, S. M. W. Rahaman, L. J. Barbour, J. K. Bera, *Inorg. Chem.* 2013, **52**, 1432.
- “Understanding C–H Bond Activation on a Diruthenium(I) Platform” A. Sinha, M. Majumdar, M. Sarkar, T. Ghatak, J. K. Bera, *Organometallics* 2013, **32**, 340.
- “Binuclear Copper Complexes and Their Catalytic Evaluation” R. K. Das, M. Sarkar, S. M. W. Rahaman, H. Doucet, J. K. Bera, *Eur. J. Inorg. Chem.* 2012, 1680.
- “Multifaceted Coordination of Naphthyridine-Functionalized N–Heterocyclic Carbene: A Novel “Ir^{III}(C^N)(C^C)” Compound and Its Evaluation as Transfer Hydrogenation Catalyst” A. Sinha, S. M. W. Rahaman, M. Sarkar, B. Saha, P. Daw, J. K. Bera, *Inorg. Chem.* 2009, **48**, 11114.

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