

CURRICULUM VITAE

DR. RITU MUKHERJEE

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DESIGNATION

Assistant Professor of Chemistry, Dum Dum Motijheel College, Kolkata-700074

ACADEMIC BACKGROUND

- Ph.D. (Chemistry), Jadavpur University, West Bengal, 2012.
- M.Sc. (Chemistry), University of Calcutta, West Bengal, 2007.

POSITIONS HELD/ HOLDING

- 2017–Present : Assistant Professor, Dum Dum Motijheel College

RESEARCH INTEREST

- Kinetic study of biomimetic molecules.

RESEARCH PROFILE

PUBLICATIONS:

Journal Paper:

1. **Mishra R.**, Mukhopadhyay, S. and Banerjee, R. (2012): Cu(II)-catalyzed oxidation of thiols by superoxide ligated to Co^{III}2, *Journal of Physical Organic Chemistry*, 25: 1193–1197.
2. **Mishra, R.**, Mukhopadhyay S. and Banerjee R. (2012): Kinetics of oxidation of nitroxyl radicals by a coordinated superoxide, *Inorganica Chimica Acta*, 392: 137-140.
3. Gain, S., **Mishra R.**, Mukhopadhyay, S. and Banerjee R. (2011): Mechanistic studies on oxidation of hydrogen peroxide and hydrazine by a metal-bound superoxide. *Inorganica Chimica Acta*, 373: 311-314.
4. **Mishra, R.**, Mukhopadhyay, S. and Banerjee, R. (2010): Reduction mechanism of a coordinated superoxide by thiols in acidic media. *Dalton Transactions*, 39: 2692-96.
5. **Mishra, R.**, Mukhopadhyay, S. and Banerjee, R. (2009): Reaction of hydrogen peroxide with coordinated superoxide in [(NH₃)₅Co^{III}(O₂)Co^{III}(NH₃)₅]⁵⁺: A mechanistic study. *Dalton Transactions*, 28: 5469-5473.
6. **Mishra, R.** and Banerjee, R., Mechanistic studies on oxidation of benzyl alcohol (*Communicated*).

NUMBER OF SEMINAR PRESENTATIONS:

- National: 5; State level: 2

NUMBER OF WORKSHOP/ CAPACITY BUILDING COURSE PARTICIPATIONS:

- International: 1; National: 5; State Level: 2

MEMBERSHIPS OF LEARNED SOCIETIES

- Indian Chemical Society, Indian Association for the Cultivation of Sciences.

AWARDS

- Declared eligible for Lectureship (NET) in the subject of *Chemical Science* in the Joint CSIR-UGC Test for *Junior Research Fellowship* and *Eligibility for Lectureship (NET)* held in 2006.
- Cleared Graduate Aptitude Test in Engineering (GATE) in Chemistry, 2007.