

## Dr. Mrinal Kanti Paira

Assistant Professor

Department of Chemistry



### Education:

Degree	Year	University
Ph.D.	2010	Jadavpur University
M.Sc.	2005	Vidyasagar University
B.Sc.	2003	Vidyasagar University

**Teaching Experience:** 9 Years

**Area of Research:** Synthesis of multidanted molecules with coordination complexes and their activity including biological and catalytical.

### Papers Published in Journals:

1. **Paira, M. K.**, Dinda, J., Lu, T –H., Paital, A. R. and Sinha, C. (2007) Zn(II), Cd(II) and Hg(II) complexes of 8-aminoquinoline. Structure, spectra and photoluminescence property, *Polyhedron*, **26**, 4131.
2. **Paira, M. K.**, Dinda, J., Wu, J. –S., Lu, T –H. and Sinha, C. (2007) Silver complex of 2-Methyl –pyrimidine. Two dimensional coordination polymer, *J. Indian Chem. Soc.*, **84**, 978.
3. **Paira, M. K.**, Chen, C. J. and Sinha, C. (2010) Cd<sup>II</sup>-azido and -thiocyanato complexes of N-[(2-pyridyl) methyliden]- $\alpha$  or  $\beta$ -aminonaphthalene by *J. Indian Chem. Soc.*, **87**, 909.

4. **Paira, M. K.**, Mondal, T. K., López-Torres, E., Ribas, J. and Sinha, C. (2010) Copper(II) complexes of thioarylazo-pentanedione: Structures, magnetism, redox properties and correlation with DFT calculations *Polyhedron*, **29**, 3147.
5. **Paira, M. K.**, Mondal, T. K., Ojha, D., Slawin, A. M. Z., Tiekink, E. R. T., Samanta, A. and Sinha, C. (2011) Structure, redox behavior, antibacterial activity and correlation with electronic structure of the complexes of nickel triad with 3-(2-(alkylthio)phenylazo)-2,4-pentanedione, *Inorganica Chimica Acta*, 370, 175-188
6. **Paira, M. K.**, Dutta, P., Mondal, T. K. and Sinha, C. (2013). Synthesis, spectral characterizations, redox properties and DFT computations of  $[\text{MH}(\text{CO})(\text{PPh}_3)_2(\text{N-heterocycle Schiff base})]^+$  (M= Ru and Os) and their applications to the synthesis of Ag nanoparticles, *J.Indian Chem. Soc.*, 90, 423-436.
7. Jana, S., Jana, M. S., Sarkar, D., **Paira, M. K.**, Mondal, T. K. (2013). Ruthenium carbonyl complexes of 3-(2-(methylthio)phenylazo)-4-hydroxy-3-penten-2-one: Synthesis, spectral characterization, electronic structure and catalytic activity *Journal of Molecular Structure*, **83–88**, 1054–1055.

#### Conference Papers:

1. Paira, M. K. Antibacterial Activity of Synthesized S,N,O donor molecule and its metal complexes. National Symposium on Recent Advances in Chemistry and Industry (2015) (Page no- 151). Kolkata, WB, Indian Chemical Society.
2. Paira, M. K. & Mondal, T. K. Ruthenium carbonyl complexes of 3-(2-(alkylthio)phenylazo)-2,4-pentanedione: An experimental and theoretical investigation. Poster -34, UGC-Sponsored & CSIR aided International Symposium on RECENT TRENDS OF RESEARCH IN CHEMISTRY (R T R C 2011). (Page no- 50). Midnapore, WB, Department of Chemistry, Midnapore College.
3. Paira, M. K. & Sinha, C. Synthesis, Structure and Spectroscopic Characterization of Cu(II) Complexes of New ONS Donor Ligands. Poster -31, National Conference on LIFE & WORK OF SIR J C BOSE IN THE PERSPECTIVE OF MODERN SCIENCE & TECHNOLOGY, 2009. (Page no- 69). Kolkata, WB, Department of Chemistry, Jadavpur University.

4. Paira, M. K. & Sinha, C. Group 10 metal complexes of thioaryazo coupled acetylacetonates. Synthesis, structure, spectra and redox properties. AEC(OP)-24. 45<sup>th</sup> Annual Convention of Chemists and International Conference on Recent Advances in Chemistry, 2008. (Page no- D-14). Kolkata, WB, Indian Chemical Society.

**Honours/ Awards:**

- JRF- CSIR (2004 & 2005), both times are called for SPM Fellowship.
- GATE – 98.91 percentile in the year 2005.

**Project Works:**

Sl.	Funding Agency (Date and File No.)	Title of the Project Work	Amount	Status [Completed (Year)/ Ongoing]
1	UGC Date 03.02.2015 (F.No.PSW- 151/14- 15(ERO))	Synthesis, characterization and catalytic, biological activity of new (ONS) <sub>n</sub> donor molecule and their complexes along with DFT computation	367000.00	Ongoing