



Dr. Bharati Chowdhury

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Dr. Bharati Chowdhury joined Department of Chemistry, Rishi Bankim Chandra College for Women in the year 2010 as an Assistant Professor. She obtained B.Sc. and M.Sc. from the University of Kalyani. Her doctoral research is on “*Synthesis, structure and photochromic activity of some d^{10} metal ion complexes of azoimidazoles*” and was awarded Ph.D. degree by the Jadavpur University in 2020.

Publications:

1. *{ μ -Bis (diphenylphosphino) methane} (1-alkyl-2-(arylo) imidazole) copper (I) perchlorate: Synthesis, structure and photochromism; **Bharati Chowdhury**, D. Mallick, K.K. Sarkar, K. Naskar and C. Sinha, ***Inorganica Chimica Acta***, 2019, **488**, 125-130.*
2. *Photochromism of {Bis(diphenylphosphino)methane}(1-alkyl-2-(arylo)imidazole) Silver(I) hexafluorophosphate complexes; **Bharati Chowdhury**, K. Naskar, D. Mallick K.K. Sarkar, C. Sen and C. Sinha, ***Inorganica Chimica Acta***, 2018, **483**, 87-92.*
3. *Aryloimidazole complexes of lead(II)-halide and their photochromism; D. Mallick, **Bharati Chowdhury**, C. Sen, K.K. Sarkar, S. Jana, S. Mondal and C. Sinha, ***Indian J. Chem.***, 2018, **57A**, 418-426.*
4. *Synthesis, characterization, photochromism and theoretical interpretation of bis-(triphenylphosphine)-Cu(I)- and Ag(I)-(1-alkyl-2-(arylo)imidazole) complexes; **Bharati Chowdhury**, K. Naskar, D. Mallick, C. Sen, K.K. Sarkar and C. Sinha, ***J. Indian Chem. Soc.***, 2018, **95**, 405-416.*
5. *Effect of aromatic alcohols and carboxylic acids on light induced isomerisation of 1-alkyl-2- $\{o$ - thioalkyl)phenylazo}imidazole; **Bharati Chowdhury**, B.K. Sarkar, C. Sinha and D. Mallick, ***J. Indian Chem. Soc.***, 2016, **93**, 1175-1182.*
6. *The structure and photophysics of di-iodo-zinc(II) complexes of long alkyl chain substituted imidazolyl motif of aryloimidazoles and the DFT computation; C. Sen, **Bharati Chowdhury**, C. Patra, D. Mallick and C. Sinha, ***Spectrochimica Acta Part A***, 2015, **151**, 443-452.*