

Name: Dr. Amrit Krishna Mitra

Designation: Assistant Professor

Educational qualification: B.Sc. [St. Xavier's college, Kolkata], M. Sc. [IIT, Kharagpur], Ph. D. [University of Calcutta (Saha Institute of Nuclear Physics, Kolkata and School of Tropical Medicine, Kolkata)].

Teaching experience under W.B.E.S.: Assistant Professor of Chemistry (2015 - till date) under W.B.E.S. (at Government General Degree College Singur, Hooghly-712 409).

Area of specialization: Organic Chemistry

Field of interest:

- (a) **Research interest:** [Synthesis of Heterocyclic compounds, Photo-induced electron transfer, Solvatochromic studies and solvent sensitive interactions of newly synthesized compounds with small organic donors and acceptors, Interaction of newly synthesized compounds with Proteins, Micelles, Cyclodextrins and Nucleic Acids.]
- (b) **Teaching interest:** [Synthetic Organic Chemistry, Chemistry of Biomolecules, Stereochemistry of Organic Compounds, Heterocyclic Chemistry, Chemistry of Reaction Mechanisms, Chemistry of Functional groups, Medicinal Chemistry, Spectroscopy].

Publications in international journals: 14

A few of my significant international publications

DNA Damage and Apoptosis Induction in Cancer Cells by Chemically Engineered Thiolated Riboflavin Gold Nanoassembly **ACS Applied Materials & Interfaces** 10 (5) (2018), 4582–4589
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Synthesis and spectroscopic exploration of carboxylic acid derivatives of 6-hydroxy-1-keto-1,2,3,4-tetrahydrocarbazole: Hydrogen bond sensitive fluorescent probes **Journal of Luminescence** 143 (2013) 693 - 703.
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Influence of microheterogeneity on the solution phase photophysics of a newly synthesised, environment sensitive fluorophore 2-((7,8-dimethyl-1-oxo-2,3,4,9-tetrahydro-1H-carbazol-6-yl)oxy)acetic acid and its tagged derivative. **Journal of Photochemistry and Photobiology A: Chemistry** 296 (2014) 66-79.
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Hydrogen Bond Sensitive Probe 5-Methoxy-1-keto-1,2,3,4-tetrahydro Carbazole in the Microheterogeneity of Binary Mixtures and Reverse Micelles. **The Journal of Physical Chemistry C** 117 (2013) 2166 - 2174.
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Solution phase photophysics of 5,7-dimethoxy-2,3,4,9-tetrahydro-1H-carbazol-1-one: Analysing the lineaments of a new fluorosensor to probe different micro-environments. **Journal of Luminescence** 167 (2015) 233-248.
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For details visit: https://www.researchgate.net/profile/Amrit_Mitra

Projects Completed: 1. Synthetic studies towards (-) CHRYSANTHONE-A. 2. Synthesis and Photophysical Studies of Heterocyclic Compounds.

Few of my academic activities besides teaching: 1. Interview board member for selection of Faculties in **Central Institute of Plastics Engineering & Technology (CIPET)**. 2. Engaged in writing science articles for personal weblog [<https://www.sciencesg.com/scientificity/>].

Few of my academic recognitions: 1. Honoured with the 'Young Scientist Award' by Indian Chemical Society -August, 2012. 2. Member of several national and international scientific and research organisations. 3. Selected as one of the probables for **Shyama Prasad Mukherjee Fellowship (SPMF)** funded by Council of Scientific and Industrial Research (CSIR), India, in 2009.