



VIDYASAGAR COLLEGE

39 SANKAR GHOSH LANE
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Name Debarati Dey

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5	Date of Joining	01.04.2015		
Academic qualifications				
6	Degree	Subject	University	Year
	Ph.D	Chemistry	Jadavpur University	2009
	M.Phil			
	MA/M.sc	Chemistry	University of Calcutta	2003
	BA/B.Sc	Chemistry	University of Calcutta	2001
PH.D. DETAILS				
7	Title of the Thesis	ENVIRONMENTAL EFFECT ON PHOTOINDUCED ELECTRON TRANSFER REACTIONS INVOLVING SOME N-HETEROCYCLIC COMPOUNDS AND RELATED INORGANIC COMPLEXES		
	Field of specialization under subject/discipline	Inorganic Chemistry		
8	PREVIOUS POSITIONS/Engagement	Assistant Professor and Head of the Department in Heritage Institute of Technology		
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11	HONOURS AND AWARDS			
12	CURRENT RESEARCH PROJECT/Field of Research			
13	TECHNICAL UNDERSTANDING AND EXPERIENCE			
14	SUMMARY OF RESEARCH EXPERIENCE			
15	EXPERIENCE OF PROJECT MANAGEMENT			

Journal:

1. Dey D et al(2007) Magnetic field effect on photoinduced electron transfer between Dibenzo[a,c]phenazine and different amines in acetonitrile-water mixture J. Phys. Chem. A *111*: 878.
2. Dey D et al(2007) Dibenzo[a,c]phenazine: a polarity insensitive hydrogen bonding probe J. Phys. Chem. A *111*: 10500.
3. Dey D et al(2007) Structure dependent switchover of reaction modes: a laser flash photolysis and magnetic field effect study J. Photochem. Photobiol. A:Chemistry *186*: 130.
4. Dey D et al(2008) Magnetic field effect on photoinduced electron transfer between [Cu(phen)₂]²⁺ and DNA J. Phys. Chem. A *112*: 3943
5. Dey D et al(2008) Interaction of guanine and guanosine hydrates with quinones: a laser flash photolysis and magnetic field effect study" J. Phys. Chem. A *112*: 4914.
6. Dey D et al(2008) Laser flash photolysis and magnetic field effect studies on interaction of thymine and thymidine with menadione: role of sugar in controlling reaction pattern Sci. Technol. Adv. Mater. *9*: 024205.
7. Dey D et al(2009) Exploring the mechanism of electron transfer between DNA and a ternary copper complex J. Phys. Chem. B *113*: 8689.
8. Dey D et al(2010) Magnetic field effect in homogeneous medium for triplet born radical ions: a way for assessment of inter-radical distance in intermolecular electron transfer J. Indian Chem. Soc. *87*: 117.
9. Dey D et al(2011) Direct observation of radical intermediates during electron transfer between DNA and ternary copper complex Journal of Luminescence *131*: 732.
10. Dey D et al(2011) Influence of heterogeneity of confined water on photophysical behavior of acridine with amines: A time resolved fluorescence and laser flash photolysis study" J. Phys. Chem. A *115*: 128.
11. Dey D et al (2012) Polyethylene Glycol Vesicles: Self Assembled Site for Luminescence Generation, Anal. Chem. *84* 7555–7561. DOI: 10.1021/ac301731x.
12. Dey D et al (2013) Aromatic amino acids in high selectivity bismuth(III) recognition, Analyst, *138*: 2308.
13. Dey D et al (2014) Dieter Schollmeyer, Santiago Garcia Granda, Unexplored analytics of some novel 3d–4f heterometallic Schiff base complexes, RSC Adv., *4*,40794-40802
14. Dey D et al(2016) Excited State hydrogen bonding fluorescent probe: role of structure and environment, Journal of Luminescence *173*: 105-112
15. Dey D et al (2019) Biomolecule assisted acid free generation of molybdenum blue: Application in analytical and bioanalytical system. International Symposium on Recent Advances in Chemistry and Material Sciences (2019) and the Celebration of the International Year of the Periodic Table, August 2 and 3, 2019, Saha Institute of Nuclear Physics,

		<p>Kolkata.</p> <p>16. Dey D etal (2021) Aqueous biphasic system in differential extraction of arseno and phosphor molybdenum blue: consequent sensing of glutathione in acid free medium vol.611(2021)p.125808. Colloids and surfaces A:Physicochemical and Engineering aspects.</p> <p>Book Publication:</p> <ol style="list-style-type: none"> 1. Dey D(2010) Hydrogen bonding on photoexcitation entitled Hydrogen bonding and transfer in the excited state Edited by Ke-Li Han & Guang-Jiu Zhao John Wiley & sons Chapter 9 2. Dey D(2016) Excited state hydrogen bonding fluorescent probe in heterogeneous bio-mimicking surfaces. Education in Chemical Science and Technology, Volume 4-5. Indian Chemical Society P: 19-30 3. Dey D(2020) History of Origin of Colour: A fascinating journey; Indian Science Cruiser. vol. 34 P:48. 4. Dey D(2020) Colour: The fascinating world; Institute of Science, Education and Culture; ISEC house, Kolkata-17. ; P: 66 5. Dey D(2021) Importance of Science Education to achieve sustainable society; Lincoln Research and Publication Limited, 144A, Marsden Road, Sydney, Australia. P: 1 6. Dey D(2023) Hydrogen bonding probe: effect of polarity; Lincoln University College. P: 25
17	Extracurricular Activities	
18	Link to personal website (if any)	