



BARASAT GOVERNMENT COLLEGE

TEACHER'S PROFILE

DR AMBARISH RAY, DEPARTMENT OF CHEMISTRY

- **DESIGNATION** : Associate Professor
- **QUALIFICATION** : M.Sc., Ph.D.
- **DATE OF JOINING THE SERVICE** : Apr 5, 2007
- **DATE OF JOINING THE INSTITUTION** : Jan 3, 2020
- **ADDRESS FOR COMMUNICATION** : Department of Chemistry, Barasat Govt. College, Barasat.
- **PHONE NO** : personal information
- **EMAIL ADDRESS** : watchambarishray@gmail.com
- **SPECIALIZATION** : Inorganic Chemistry
- **TEACHING EXPERIENCE** : UG: 14 Years and PG : 8 Years as Guest faculty at Jadavpur University
- **COLLEGE SERVED** : (1) A. B. N. Seal College (From 05.04. 2007 to 25.08.2010)
(2) Maulana Azad College (From 26.08.2010 to 02.01. 2020)
(3) Barasat Govt. College (From 03.01.2020 to till date)

ACADEMIC AND ADMINISTRATIVE EXPERIENCE	: (1) Coordinator of DBT Boost Project (2015-2019) (2) Chief Editor of College Journal (2008-2010 & 2012-2019) (3) Member of IQAC (2012-2019) (4) Member of NAAC steering Committee (2017) (5) Member of CAS Committee (2015-2019)
TOPICS TAUGHT	: Inorganic and Analytical Chemistry
AREA OF RESEARCH & INTEREST	: Supramolecular Chemistry and Chemosensor
ONGOING PROJECT DETAILS	: NONE
AWARD RECEIVED	: Best Poster presentation in MTIC, Bombay IIT in 2012 and Positioned 2nd in Oral presentation SMIT, Sikkim in the year 2018.
PATENT DETAILS	: NONE
EXTRACURRICULAR ACTIVITIES	: Author of science fiction stories and poems in various little magazines
CAREER PROFILE	: Passed UG and PG in Chemistry and B.Ed. from University of Calcutta in the year 1995, 1997 and 2003 respectively with First Class. NET (JRF, CSIR) and GATE Qualified. Ph.D.(Sc.) from Jadavpur University. Qualified in UPSC, SSC, GSI and PSC. Ph.D. guide and reviewer of various International Journals under Royal Society of Chemistry and American Chemical Society.
ACADEMIC LINK	: https://scholar.google.com/citations?user=y9zt40YAAAAJ&hl=en

PUBLICATION

JOURNAL PUBLICATION :

- (1) Snigdha Roy, Sanju Das, Ambarish Ray, Partha Pratim Parui, 'An inquisitive fluorescence method for the real-time detection of trace moisture in polar aprotic solvents with the application of water rancidity in foodstuffs', *New Journal of Chemistry*, RSC, February, 2021, ISSN: 1144-0546 (print) 1369-9261 (web)
- (2) Snigdha Roy, Sanju Das, Ambarish Ray, Partha Pratim Parui, 'Fluorometric trace methanol detection in ethanol and isopropanol in a water medium for application in alcoholic beverages and hand sanitizers', *RSC Advances*, RSC, September, 2021, ISSN: 2046-2069
- (3) Snigdha Roy, Sanju Das, Rini Majumder, Ambarish Ray, Partha Pratim Parui, 'An aluminium fluorosensor for the early detection of micro-level alcoholate corrosion', *RSC Advances*, RSC, June, 2020, ISSN: 2046-2069
- (4) Yeasmin Sarkar, Snigdha Roy, Rini Majumder, Sanju Das, Dixit V Bhalani, Ambarish Ray, Suresh K Jewrajka, Partha Pratim Parui, 'Protonation-induced pH increase at the triblock copolymer micelle interface for transient membrane permeability at neutral pH', *Soft matter*, RSC, November, 2020, ISSN: 1744-683X (print) 1744-6848 (web)
- (5) Partha Pratim Parui, Ambarish Ray, Sanju Das, Yeasmin Sarkar, Tanaya Paul, Snigdha Roy, Rini Majumder, Jaya Bandyopadhyay, 'Glutathione-selective "off-on" fluorescence response by a probe-displaced modified ligand for its detection in biological domains', *New Journal of Chemistry*, RSC, January, 2019, ISSN: 1144-0546 (print) 1369-9261 (web)
- (6) Yeasmin Sarkar, Rini Majumder, Sanju Das, Ambarish Ray, Partha Pratim Parui, 'Correction to "Detection of Curvature-Radius-Dependent Interfacial pH/Polarity for Amphiphilic Self-Assemblies: Positive versus Negative Curvature"', *Langmuir*, ACS, February, 2018, ISSN: 0743-7463 (print) 1520-5827 (web)
- (7) Sanju Das, Yeasmin Sarkar, Rini Majumder, Santanu Mukherjee, Jaya Bandyopadhyay, Ambarish Ray, Partha Pratim Parui, 'A unique cysteine selective water soluble fluorescent probe operable in multiple sensing cycles for the detection of biogenic cysteine in multicellular living species', *New Journal of Chemistry*, RSC, January, 2017, ISSN: 1144-0546 (print) 1369-9261 (web)
- (8) Rini Majumder, Yeasmin Sarkar, Sanju Das, Ambarish Ray, Partha Pratim Parui, 'Interfacial pH and polarity detection of amphiphilic self-assemblies using a single Schiff-base molecule', *New Journal of Chemistry*, RSC, July, 2017, ISSN: 1144-0546 (print) 1369-9261 (web)
- (9) Yeasmin Sarkar, Sanju Das, Ambarish Ray, Suresh K Jewrajka, Shun Hirota, Partha Pratim Parui, 'A simple interfacial pH detection method for cationic amphiphilic self-assemblies utilizing a Schiff-base molecule', *Analyst*, RSC, February, 2016, ISSN: 0003-2654 (print) 1364-5528 (web)
- (10) Rini Majumder, Yeasmin Sarkar, Sanju Das, Suresh K Jewrajka, Ambarish Ray, Partha Pratim Parui, 'A ratiometric solvent polarity sensing Schiff base molecule for estimating the interfacial polarity of versatile amphiphilic self-assemblies', *Analyst*, RSC, April, 2016, ISSN: 0003-2654 (print) 1364-5528 (web)



BOOK PUBLICATION

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