

**Name: Dr. Satyajit Mondal**

**Designation: Assistant Professor**

**Branch: Chemistry**

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**Educational Qualification(s):**

Qualification(s)	University
M. Sc. (Chemistry)	University of Calcutta, Kolkata
Ph. D. (Chemistry)	Jadavpur University, Kolkata
Postdoc (Chemistry)	Presidency University, Kolkata

**Experience in years:**

Academic :

Details:

Sl. No.	Organization	Position Held	Duration	
			From	To
1	Presidency University, Kolkata	UGC-Dr. D. S. Kothari Post Doctoral Fellow	15/09/2015	14/09/2018
2	Jadavpur University, Kolkata	Ph. D. Research Fellow	06/09/2010	08/09/2015

**Other Information:**

(a) Publication details.

**List of Research Publications**

[1] Role of curcumin on the determination of the critical micellar concentration by absorbance, fluorescence and fluorescence anisotropy techniques

**Satyajit Mondal, Soumen Ghosh. Journal of Photochemistry and Photobiology B: Biology** 2012, 115, 9-15.

[2] Spectroscopic investigation of interaction between crystal violet and various surfactants (cationic, anionic, nonionic and gemini) in aqueous solution

Soumen Ghosh, **Satyajit Mondal**, Sibani Das, Rathin Biswas. **Fluid Phase Equilibria** 2012, 332, 1-6.

[3] Spectroscopic study on the interaction of medicinal pigment, curcumin with various surfactants: An overview

- Soumen Ghosh, **Satyajit Mondal**. **Journal of Surface Science and Technology** 2012, 28, 179-195.
- [4] Physicochemical studies on the micellization of cationic, anionic, and nonionic surfactants in water-polar organic solvent mixtures
- Sibani Das, **Satyajit Mondal**, Soumen Ghosh. **Journal of Chemical & Engineering Data** 2013, 58, 2586-2595.
- [5] Amphiphilic activities of anionic sodium cholate (NaC), zwitterionic 3-[(3-cholamidopropyl)dimethylammonio]-1-propanesulfonate (CHAPS) and their mixtures: A comparative study
- Bappaditya Naskar, **Satyajit Mondal**, Satya P. Moulik. **Colloids and Surfaces B: Biointerfaces** 2013, 112, 155-164.
- [6] Spectroscopic studies of interaction of safranin T with ionic surfactants
- Satyajit Mondal**, Bandita Doloi, Soumen Ghosh. **Fluid Phase Equilibria** 2013, 360, 180-187.
- [7] Interaction of myoglobin with cationic gemini surfactants in phosphate buffer at pH 7.4
- Satyajit Mondal**, Sibani Das, Soumen Ghosh. **Journal of Surfactants and Detergents** 2015, 18, 471-476.
- [8] Colloidal dispersions of lipids and curcumin, and the solubility and degradation kinetics of the latter in micellar solution
- Satyajit Mondal**, Soumen Ghosh, Satya P. Moulik. **Soft Materials** 2015, 13, 118-125.
- [9] Physicochemical investigation on the bulk and surface properties of the binary mixtures of N-methyl-N-dodecanoyl sodium glycinate (SDDS) and N-methyl-N-decanoyl glucamine (MEGA 10) in aqueous medium
- Soumen Ghosh, Gargi Basu Ray, **Satyajit Mondal**. **Fluid Phase Equilibria** 2015, 405, 46-54.
- [10] Physicochemical study of the interaction of lysozyme with surface active ionic liquid 1-butyl-3-methylimidazolium octylsulfate [BMIM] [OS] in aqueous and buffer media
- Bithika Mandal, **Satyajit Mondal**, Animesh Pan, Satya P. Moulik, Soumen Ghosh. **Colloids and Surfaces A: Physicochemical and Engineering Aspects** 2015, 484, 345-353.
- [11] Interaction of myoglobin with cationic and nonionic surfactant in phosphate buffer media
- Satyajit Mondal**, Maria Luz Raposo, Gerardo Prieto, Soumen Ghosh. **Journal of Chemical & Engineering Data** 2016, 61, 1221-1228.
- [12] Stability of curcumin in different solvent and solution media: UV-visible and steady-state fluorescence spectral study
- Satyajit Mondal**, Soumen Ghosh, Satya P. Moulik. **Journal of Photochemistry and Photobiology, B: Biology** 2016, 158, 212-218.
- [13] Interaction of cationic gemini surfactant tetramethylene-1,4-bis(dimethyltetradecylammonium bromide) with anionic polyelectrolyte sodium carboxymethyl cellulose, with two different molar masses, in aqueous and aquo-organic (isopropanol) media
- Sibani Das, **Satyajit Mondal**, Soumen Ghosh. **RSC Advances** 2016, 6, 30795-30803.

[14] Effect of curcumin on the binding of cationic, anionic and nonionic surfactants with myoglobin  
**Satyajit Mondal**, Soumen Ghosh. **Journal of Molecular Structure** 2017, 1134, 292-297.

[15] Thermodynamics of aggregation of imidazolium-based surface active ionic liquids in aqueous poly(ethylene oxide) media

**Satyajit Mondal**, Dhiman Ray, Bijan Das. **The Journal of Chemical Thermodynamics** 2018, 116, 61-66.

[16] A study on the interaction of horse heart cytochrome c with some conventional and ionic liquid surfactants probed by ultraviolet-visible and fluorescence spectroscopic techniques

**Satyajit Mondal**, Bijan Das. **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy** 2018, 198, 278-282.

(b) Details of Seminar/Workshop/Conference.

#### **Conference/Seminars attended**

[1] **National Conference on Trends in Surface Science and Related Areas (TSSRA-2010)**; organized by Indian Society for Surface Science & Technology and Centre for Surface Science, Department of Chemistry, Jadavpur University, November 19, 2010 at Jadavpur University.

[2] **Trends in Surface Science and Related Areas**; organized by Indian Society for Surface Science & Technology and Centre for Surface Science, Department of Chemistry, Jadavpur University, November 08, 2011 at Jadavpur University.

[3] **Fifteen National Conference on Surfactants, Emulsions and Biocolloids-2011 (NATCOSEB XV)**; organized by Department of Chemistry, Tripura University and Indian Society for Surface Science & Technology, December 27-29, 2011 at Tripura university (**Oral Presentation**).

[4] **Trends in Surface Science and Related Areas (TSSRA-2012)**; organized by Indian Society for Surface Science & Technology and Scottish Church College, July 24, 2012 at Scottish Church College, Kolkata.

[5] **Understanding Physical Chemistry: Role of Teachers and Students**; organized by Physical Chemistry Section, Department of Chemistry, Jadavpur University, July 26, 2012 at Jadavpur University.

[6] **National Conference on Sustainable Development through Innovative Research in Science and Technology**; organized by Jadavpur University, September 28-29, 2012 at Jadavpur University.

[7] **Trends in Surface Science and Related Areas**; organized by Indian Society for Surface Science & Technology, Centre for Surface Science and Dr. V. Ravichandran Centre for Advanced Research in Pharmaceutical Sciences, Department of Pharmaceutical Technology, Jadavpur University, May 03, 2013 at Jadavpur University.

[8] **National Seminar on Social Function of Science-2013 and The Celebration of 150<sup>th</sup> Birth Anniversary of Swami Vivekananda**; organized by Faculty of Science, Jadavpur University, June 14, 2013 at Jadavpur University.

[9] **Physical Chemistry Research: Teaching and Industrial Perspectives (PCRTIP-2013)**; organized by Department of Chemistry, Jadavpur University, September 28, 2013 at Jadavpur University.

[10] **16<sup>th</sup> National Conference on Surfactants, Emulsions and Biocolloids (NATCOSEB XVI)**; organized by Central Leather Research Institute-Chennai and Indian Society for Surface Science & Technology, November 28-30, 2013 at CLRI-Chennai (**Oral Presentation**).

[11] **National Conference on Photosciences: Contemporary Challenges and Future Perspectives**; organized by Indian Photobiology Society, December 12-14, 2013 at Jadavpur university (**Poster Presentation**).

[12] **Trends in Surface Science and Related Areas**; organized by Department of Chemistry, Presidency University, Kolkata and Indian Society for Surface Science & Technology and Centre for Surface Science, Department of Chemistry, Jadavpur University, July 24, 2014 at Presidency University, Kolkata.

[13] **North East Regional Seminar on Trends in Colloid and Interface Science (NERSTCIS-2014)**; organized by Department of Chemistry, North-Eastern Hill University, Shillong, November 27-28, 2014 at North-Eastern Hill University, Shillong (**Oral Presentation**).

[14] **Trends in Surface Science and Related Areas**; organized by Department of Chemistry, West Bengal State University, Barasat, West Bengal and Indian Society for Surface Science & Technology, July 25, 2015 at West Bengal State University, Barasat, West Bengal.

[15] **17<sup>th</sup> National Conference on Surfactants, Emulsions and Biocolloids (NATCOSEB XVI)**; organized by School of Study in Chemistry, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh and Indian Society for Surface Science & Technology, November 04-06, 2015 at Pt. Ravishankar Shukla University, Raipur, Chhattisgarh (**Oral Presentation**).

[16] **23<sup>rd</sup> West Bengal State Science and Technology Congress 2016**; organized by Presidency University, Kolkata, February 28-29, 2016 at Presidency University, Kolkata (**Poster Presentation**).

[17] **Trends in Surface Science and Related Areas**; organized by Department of Chemistry, Sree Chaitanya College, Habra, West Bengal and Indian Society for Surface Science & Technology, August 20, 2016 at Sree Chaitanya College, Habra, West Bengal.

[18] **International Conference on Emerging Materials (ICEM 2017)**; organized by Department of Chemistry and Chemical Technology, Vidyasagar University, Midnapore, West Bengal, India, April 20-21, 2017 at Vidyasagar University, Midnapore, West Bengal, India (**Poster Presentation**).

(c) Professional membership of reputed bodies if any.

**Life member of Indian Society for Surface Science and Technology**