




## Bhagini Nivedita College

### Faculty Details



Title	Dr.	First Name	Surashree	Last Name	Sarma	Photograph
Designation	Assistant Professor					
Address	Dept. of Chemistry, Bhagini Nivedita college, Kair					
Phone No	Office					
	Residence					
	Mobile	9868625328				
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Educational Qualifications						
Degree	Institution			Year		
Ph.D	Tezpur University			2006		
M.Sc.	Gauhati University			1999		
B.Sc.	Cotton College, Gauhati University			1997		
Career Profile						
Assistant Professor in Dept. of Chemistry, Bhagini Nivedita College						
Administrative Assignments						
As assigned by college from time to time.						
Areas of Interest / Specialization						
Physical Chemistry						
Subjects Taught						
Atomic structure, Chemical Energetics, States of matter, Chemical Kinetics, Phase Equilibrium, Quantum Chemistry, Organometallic Chemistry, Chemistry of Cosmetics and perfume, Fuel Chemistry etc.						
Research Guidance						
-						
Publications Profile						
<b>Paper published in journals:</b>						
1. S. Sarma and R.K. Dutta, "Partition of bromophenol blue in toluene/water/sodium bis(2-ethylhexyl)						

sulfosuccinate – water in oil microemulsions”, *Surfact. Deterg.*, 8 (2005) 277.

2. S. Sarma, M. Bora and R.K. Dutta, “Effects of alcohol on partition equilibrium of phenol red in micellar solutions and o/w microemulsions of anionic surfactants”, *Colloids Surf. A*, 256 (2005) 105.
3. S. Sarma and R.K. Dutta, “Effect of buffers on partition equilibrium of phenol red in benzene/water/SDS-butanol oil/water microemulsions”, *J. Chem. Res.*, (2004)620.
4. S. Sarma, B. Gohain and R.K. Dutta, “A partition equilibrium study of benzene/water/SDS-butanol oil/water microemulsions”, *J. Chem. Res.*, (2003) 408.
5. P.M. Saikia, A. Kalita, B. Gohain, S. Sarma and R.K. Dutta, “A partition equilibrium study of sulphonephthalein dyes in anionic surfactant systems: determination of cmc in buffered medium”, *Colloids Surf. A*, 216 (2003)21.
6. B. Das, J. Talukdar, S. Sarma, B. Gohain, H.B. Das, A.C. Das, R.K. Dutta, “Fluoride and some other inorganic constituents in groundwater of Guwahati city, Assam, India”, *Curr. Sci.*, 85 (2003) 657.
7. B. Gohain, P.M. Saikia, S. Sarma, S.N. Bhat and R.K. Dutta, “Hydrophobicity-induced deprotonation of dye in dye-submicellar surfactant systems”, *Phys. Chem. Chem. Phys.*, 4(2002) 2617.
8. S. Sarma and R.K. Dutta, “A visible spectroscopic study of microemulsion O/W of anionic surfactants : Effects of Cosurfactant” *J. Dispersion. Sci. Tech* 27(2006)6.
9. S. Sarma and R.K. Dutta, “Electronic spectral behavior of bromophenol blue in oil in water microemulsions stabilized by sodium dodecyl sulfate and n-butanol”, *SpectrochimicaActa*64 (2006) 623
10. B. Gohain, S. Sarma, and R.K. Dutta, “Protonated dye-surfactant ion pair formation between neutral red and anionic surfactants in aqueous submicellar solutions”, *J. Mol. Liquids*, 142 (2008) 130.

#### **Papers presented in Symposium/Seminar:**

1. S. Sarma and R.K. Dutta, “A novel method for determination of total surface area of microemulsion droplets” presented in the 4<sup>th</sup> National Symposium in Chemistry held at National Chemical Laboratory, Pune, Feb 1<sup>st</sup>-3<sup>rd</sup>, (2002).
2. “Waste polyester foam as absorbent of oil for soil and water remediation”, S. Sarma and R.K. Dutta, *All India Seminar on Green Chemistry: Safer Technologies and Safer Chemicals*, Institute of Engineers (India), Guwahati, 15 March, 2003.
3. “A Review: Dyes in Microemulsion Systems” S Sarma and R. K. Dutta , National Seminar on Applications of Basic Sciences in Engineering and Technology(NSABSET-2013), Echelon Institute of

Technology, Fardidabad , 27-28 December 2013

4. "Effects of alcohol on partition equilibrium of phenol red in micellar solutions of and o/w microemulsions stabilized by anionic surfactants", R.K. Dutta and S. Sarma, *National symposium on Current Trend in Chemical Research*, Gauhati University, Guwahati, 27-28 Feb., 2004.
5. "Effects of pH and temperature on hydrophobicity induced protonation and deprotonation of dyes in oppositely charged dye-submicellar surfactant systems", R.K. Dutta, B. Gohain, S. Sarma, B. Das and P.M. Saikia, *5<sup>th</sup> National symposium on Chemistry*, Chennai, 7-9 Feb., 2003.

**Workshop attended:**

1. National Workshop on Science and Technology for Regional Development: Case for North East India. Organized by Tezpur University, IIT Guwahati & C-MMACS, Bangalore during 3-6 February, 2004.
2. A two-day National Workshop on Intellectual Property Rights, organized by Department of Botany and Zoology, Deen Dayal Upadhyaya College (University of Delhi) under the aegis of DBT Star College Scheme during August 22-23, 2019.
3. Week long National Workshop on "Emerging Trends in Science and Technology: Issues in these Unprecedented Times" organized by Shyam Lal College (SLC) under the aegis of DBT Star College Scheme in Collaboration with IQAC, SLC from 4<sup>th</sup> August to 8<sup>th</sup> August, 2020.

**Conference attended:**

1. National Conference on Recent Advances in Chemical Sciences Towards Green & Sustainable Environment : Swachh Bharat Abhiyan Perspective held on 10-11th Oct 2017, Aditi Mahavidyalaya (University of Delhi).
2. International conference on Integrative Chemistry, Biology and Translational Medicine (ICBTM-2019) organized by the Centre for Global Health, Hansraj College, University of Delhi & Loyola University Chicago Stritch School of Medicine, USA during 25-26 February 2019.

**Publications in the Last one year**

Conference Organization/ Presentations (in the last three years)
Research Projects (Major Grants/Research Collaboration)
Awards and Distinctions
Association With Professional Bodies
Other Activities