

List of Publications from the work

1. Thermodynamic Energetics of Charged Micellar Solutions with and without Salts at the Cloud Point, Sanjeev Kumar and Arti Bhadoria, *J. Chem. Eng. Data* 2012, 57,521-525.
2. Morphologies near Cloud Point in Aqueous Ionic Surfactant: Scattering and NMR Studies, Sanjeev Kumar, Arti Bhadoria, Harsha Patel and V. K. Aswal, *J. Phys Chem.B* 2012,116,3699-3703.
3. Mechanistic Approach on Heat Induced Growth of Anionic Surfactant: A Clouding Phenomenon, Arti Bhadoria, Sugam Kumar, V. K. Aswal and Sanjeev Kumar, *RSC Adv.*, 2015, Accepted Manuscript DOI: 10.1039/C5RA01090J, Paper
4. Synergistic Effect of Temperature and Nature of Counterion/Headgroup on the Anionic Micellar Growth: NMR and POM Studies, Arti Bhadoria and Sanjeev Kumar (Communicated in *Colloids and Surfaces A: Physicochemical and Engineering Aspects*)
5. Effect of Drugs on Clouding Phenomenon: Implications In Preconcentration Step Arti Bhadoria and Sanjeev Kumar (Communicated in *J. Mol. Liquids*)

Conferences Participated

1. Thermodynamics of Clouding in Anionic Surfactant Solutions with and without a Drug Intermediate: Influence of Counterion and Headgroup, Arti Bhadoria and Sanjeev Kumar, *9th National Conference on Thermodynamics of Chemical, Biological, Environmental and Non-Conventional Energy Systems* held at Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar, Gujarat INDIA during October 17-18, 2014.
2. NMR and SANS Studies on Clouding Behaviour of Aqueous Anionic Surfactants, Arti Bhadoria and Sanjeev Kumar, *5th Asian Conference on Colloid and Interface Science (ACCIS 2013)* held at Department of Chemistry, University of North Bengal Darjeeling, INDIA during November 20-23, 2013.
3. Anomalous Heating Induced Micellar Growth in aqueous Anionic Surfactant: A SANS Study. Sanjeev Kumar, Arti Bhadoria, Sugam Kumar and V.K.Aswal, *International Symposium on Neutron Scattering*, held at held at Bhabha Atomic Research Centre, Mumbai, India, Jan 14-17, 2013.
4. Temperature Induced Solution Behavior of Surfactants: A SANS Study. Arti Bhadoria, Sugam Kumar, V.K. Aswal and Sanjeev Kumar, *15th International Conference on Small Angle Scattering*, held at Sydney Convention & Exhibition Centre, Sydney, Australia, Nov 18-23, 2012.
5. Clouding Behavior of Anionic Surfactant Solutions: A SANS Study. Arti Bhadoria, V.K.Aswal and Sanjeev Kumar, *1st Asia-Oceania Conference on Neutron Scattering*, held at Tsukuba, Japan, Nov 20-24, 2011.
6. Influence of [TBADS] and [NH₄Br] on Clouding Behaviour of Ionic Surfactant Solution: A SANS Study. Arti Bhadoria, V.K.Aswal and Sanjeev Kumar. *3rd International Symposium on Materials Chemistry*, held at Bhabha Atomic Research Centre, Trombay, India, Dec 7-11, 2010.

7. Stimuli Responsive Solution Behaviour of Surfactants: A SANS Study Arti Bhadoria, Sanjeev Kumar, 3rd AONSA Neutron School held at SSPD, BARC, Trombay, Mumbai, October 4-9, 2010.

Workshop attended

1. Lecture Workshop on Science of Molecular materials, Electronic and Energy Applications organized under auspices of Department of Chemistry, The Maharaja Sayajirao Univerity of Baroda, Vadodara and Science Academies during October 3-5, 2012.
2. National Conference on Chirality (NCC-2011) organized by Department of Chemistry, The Maharaja Sayajirao Univerity of Baroda, Vadodara during December 2-3, 2011
3. A 5 Day School of Bioinorganic Chemistry organized by Department of Chemistry, The Maharaja Sayajirao Univerity of Baroda, Vadodara during March 8-12, 2011