Publications


5. Photonic Crystal Hydrogel Material for the Sensing of Toxic Mercury Ion (Hg$^{2+}$) in Water, Dhamodaran Arunbabu, Arindam Sannigrahi, Tushar Jana, (communicated to Soft Matter)


**Note:** Publications 1-5 are included in this thesis as chapters 2-6, respectively.
Conference Presentations

1. Poster presented on “Synthesis of Monodisperse Polystyrene Colloidal Particles” in 3rd annual in-house symposium CHEMFEST-2006 of the School of Chemistry, University of Hyderabad, Hyderabad, India.

2. Poster presented on “Synthesis of Charged Crosslinked Polystyrene Colloidal Particles: Effect of Emulsifier and Initiator Concentration.” In 4th annual in-house symposium CHEMFEST-2007 of the School of Chemistry, University of Hyderabad, Hyderabad, India.

3. Poster presented on “Synthesis of Charged Crosslinked Polystyrene Colloidal Particles and its application in the Generation of Mercury(Hg²⁺) Sensor” in Poly 2008: International Conference on Advances in Polymer Science and Technology, during January 28-31, 2008, at Indian Institute of Technology, New Delhi, India. [Received best poster award]

4. Poster presented on “Emulsion Copolymerization of Styrene and Sodium Styrene Sulfonate: Kinetics, Monomer Reactivity Ratios and Copolymer Properties” in 5th annual in-house symposium CHEMFEST 2008 of the School of Chemistry, University of Hyderabad, Hyderabad, India.

5. Poster presented on “Charged Polystyrene Colloids: Synthesis and Applications” in 6th annual in-house symposium CHEMFEST 2009 of the School of Chemistry, University of Hyderabad, Hyderabad, India.

6. Oral talk and poster Presented on “Smart enzymatic biosensor for the sensing and determination of Mercury (Hg²⁺)” in 7th annual in-house symposium CHEMFEST 2010 of the School of Chemistry, University of Hyderabad, Hyderabad, India.