

**Dr. Soumen Dey**  
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### Academic Background

Ph. D: Indian Institute of Technology Kanpur, 2009 under the supervision of Prof. S. Sarkar.

M.Sc: Visva Bharati, Santiniketan, 2000 (Inorganic Specialization)

### Professional Experience

- Assistant Professor, Centre for Applied Chemistry, Central University of Jharkhand, Ranchi from April, 2011 - date
- Assistant Professor, Department of Chemistry, S. K. M. University Dumka from March, 2008 – March, 2011.
- UGC-JRF, Department of Chemistry, Presidency University Kolkata, 2001-2003.

### Awards, Achievements & Recognition

- D. S. Bhakuni Young Scientist Award conferred by Indian Chemical Society, 2008
- U. Annapurna. & S. N. memorial Young Scientist award conferred by Indian Chemical Society, 2002
- Best oral presentation award at 55<sup>th</sup> ORP at UGC-ASC, Ranchi University, 2009.
- Mohanananda Memorial award for outstanding academic record, 1992.
- Inspector of P.O.T. by IGNOU, New Delhi in SKMU Dumka Regional centre.
- Fellow, Indian Council of Chemist, Agra
- Fellow, Indian Chemical Society, Kolkata
- Fellow, IIT Kanpur Alumni Association
- CSIR-JRF NET, 2002
- S.R.A.-DST, 2008.

### Area of Interest

- Synthesis of porphyrinogen and related systems and metallo derivative of unusual oxidation states.
- Supramolecular interaction involving host-guest signalling
- Organometallic and bio-mimetic chemistry
- Arsenic and Fluoride pollution in drinking water
- Activation of small molecules

### Selected Publications

1. Soumen Dey, Kuntal Pal, Sabyasachi Sarkar\*; "Manganese(III) porphyrinogens: C-rim modification to tune the properties of Free and metalated complex". (2010, Communicated).
2. Soumen Dey, Sabyasachi Sarkar\*; "Copper Nitrate Mediated Nitration of Calix[4]pyrrole: Synthesis and Anion Scavenging Ability of  $\beta$ -octanitrocalix[4]pyrroles". (*Tetrahedron Lett.*, 2010, Under revision)

3. **Soumen Dey**, Kuntal Pal, Sabyasachi Sarkar\*; "Synthesis of  $\beta$ -octabromocalix[4]pyrrole and Structural Diversity in Their Acetone Inclusion Complexes" *Tetrahedron Lett.* **2008**, 49, 960-964.
4. **Soumen Dey**, Kuntal Pal, Sabyasachi Sarkar\*; "Thermally Induced Reversible Conformational Changes in the Host-Guest Adduct of meso-Tetraethyltetramethylcalix[4]pyrrole" *Tetrahedron Lett.* **2007**, 48, 5481-5485.
5. **Soumen Dey**, Kuntal Pal, Sabyasachi Sarkar\*; "An Efficient and Eco-friendly Protocol to Synthesize Calix[4]pyrroles" *Tetrahedron Lett.* **2006**, 47, 5851-5854.
6. Dibyendu Bhattacharya, **Soumen Dey**, Suman Maji, Kuntal Pal, Sabyasachi Sarkar\*; "Direct Incorporation of a Ferric Ion in the Porphyrinogen Core: Tetrakis(cyclohexyl)iron Porphyrinogen Anion with Different Conformers and Its Reaction with Iodine" *Inorg. Chem.* **2005**, 44, 7699-7701.
7. **Soumen Dey**, Shahana Chatterjee, Sabyasachi Sarkar\*; "Direct and Indirect Arsenic Release from Soaps by Unhygienic Use in Tube wells" *Current Science.* **2005**, 1913-1916.
8. **Soumen Dey**, Saswati Goswami, Uday Chand Ghosh\*; "Hydrous Ferric Oxide: a Scavenger for Fluoride from contaminated Ground Water" *Water, air and soil pollut.* **2004**, 158, 311-324.
9. Biswaranjan Manna, **Soumen Dey**, Sushanta Debnath, Uday Chand Ghosh\*; *Water Quality Res. J. Can.* **2003**, 38, 193-210.
10. Saswati Goswami, **Soumen Dey**, Uday Chand Ghosh\*; "Studies on Removal of Fluoride by Hydrated Zirconium Oxide (HZO)" *Chem. Environ. Res.* **2004**, 13, 117-126.

#### **Invited talk:**

1. CSIR and BCST sponsored 'New routes and Challenges in chemical Sciences' held at G.B.C., Bhagalpur University, 20-21 Sept, 2011.
2. UGC sponsored national seminar on 'Water pollution and its Recent Challenges', SKM University Dumka, 29-30<sup>th</sup> April, 2011.

#### **Courses Taught:**

- Coordination chemistry
- Organometallics