

DR. SUBHRA KANTI MANDAL

Assistant Professor (W.B.E.S.)

Chemistry

Email: subhra.mndl@gmail.com



Specialization: Organic Chemistry

Major Interest Areas: Reaction Mechanism, Bio-organic & Medicinal Chemistry, Green Chemistry

Academic Credentials:

- *Ph.D. (2010 - 2015): Indian Association for The Cultivation of Science, Jadavpur*
- *M.Sc. (2008-2010): University of Calcutta*
- *B. Sc. (2005-2008) Presidency College, Kolkata*

Teaching Experience

- *Assistant Professor (June, 2015 –October, 2020): Gorubathan Govt. College, Kalimpong*
- *Assistant Professor (October, 2020 – Till date): P. R. Thakur Govt. College, Thakurnagar*

Courses taken:

- Reaction Mechanism
- Bio-organic & Medicinal Chemistry
- Advanced Organic Synthesis
- Green Chemistry

Research Interest:

- Self-assembled systems
- Low molecular weight Gels and their biochemical applications
- Carbon nanomaterials
- Surfactant – Dye interaction and their physicochemical applications.

Research Experience:

- August, 2010 to June, 2015: PhD. at the Indian Association for The Cultivation of Science, Jadavpur, Supervisor: Prof. Prasanta Kumar Das, Major Topic of Research: Self-assembled nanomaterials and their biochemical applications.

List of Publications:

1. Subhra Kanti Mandal, Deep Mandal and **Prasanta Kumar Das***. Synthesis of Low-Molecular-Weight Fluorescent Ambidextrous Gelator: Development of Graphene and Graphene Oxide Included Gel-Nanocomposite. *ChemPlusChem* **2016**, *81*, 213-221.
2. Subhra Kanti Mandal, Sayanti Brahmachari and **Prasanta Kumar Das***. In Situ Synthesized Ag Nanoparticle Infused L-Lysine Based Injectable Hydrogel: Development of Biocompatible Antibacterial Soft-Nanocomposite. *ChemPlusChem* **2014**, *79*, 1733-1746.

3. Subhra Kanti Mandal, Tanmoy Kar, and **Prasanta Kumar Das***. Pristine Carbon Nanotube Included Supramolecular Hydrogel with Tunable Viscoelastic Properties. *Chem. Eur. J.* **2013**, *19*, 12486-12496.
4. Subhra Kanti Mandal, Tanmoy Kar, Dibyendu Das and **Prasanta Kumar Das***. The Striking influence of SWNT-COOH on self-assembled gelation. *Chem. Commun.* **2012**, *48*, 1814-1816.
5. Deep Mandal, Subhra Kanti Mandal, Moumita Ghosh and **Prasanta Kumar Das***. Phenylboronic Acid Appended Pyrene Based Low Molecular Weight Injectable Hydrogel: Glucose Stimulated Insulin Release. *Chem. Eur. J.* **2015**, *21*, 12042-12052. (considered as 'HOT' paper).
6. Sayanti Brahmachari, Subhra Kanti Mandal, and **Prasanta Kumar Das***. Fabrication of SWCNT-Ag Nanoparticle Hybrid Included Self-Assemblies for Antibacterial Applications. *PLOS ONE* **2014**, *9*, e106775.
7. Tanmoy Kar, Subhra Kanti Mandal and **Prasanta Kumar Das***. Influence of pristine SWNT in supramolecular hydrogelation: scaffold for superior peroxidase activity of cytochrome c. *Chem. Commun.* **2012**, *48*, 8389-8391.
8. Tanmoy Kar, Subhra Kanti Mandal and **Prasanta Kumar Das***. Organogel-Hydrogel Transformation by Simple Removal and Inclusion of Boc-Protection. *Chem. Eur. J.* **2011**, *17*, 14952-14961.

List of Honours/Awards:

- Received senior research fellowship (SRF) of CSIR.
- Qualified National Eligibility Test (NET) (among top 20% awardees) in Chemical Science
- Received Junior Research Fellowship (JRF) of CSIR, INDIA.
- Qualified all India Graduate Aptitude Test for Engineering (GATE) in Chemical Science.

Lecture Presentations:

- Invited lecture in the international webinar "General Overview to COVID 19 Pandemic: New Normal Scenario and Vaccination" organized by the Department of Chemistry, in collaboration with IQAC, Vivekananda Mission Mahavidyalaya, Purba Medinipur, West Bengal.
- Invited lecture in the one-day State Level Webinar titled "COVID-19 Pandemic: Disease vs Society", organized by Department of Chemistry & IQAC and Government General Degree College at Kalna-I, Burdwan