

Mr. Sanju Das



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

Qualifications: M.Sc.

- CSIR-UGC NET Qualified (CSIR)
- Ph.D. thesis submitted at Jadavpur University on “Synthesis, characterization with fluorescence chemo-sensing application of Cu(II)-complexes containing phenol-based ligands”

About Me: I joined in a higher secondary school as an Assistant Teacher after completion of my Masters in Chemistry and finally in the W.B.E.S. service in the year of 2009 as Assistant Professor in Chemistry.

Current Teaching:

- Course instructor for Inorganic and Analytical Chemistry including theoretical concept on atomic structure, chemical bonding, Periodic properties of elements, Coordination chemistry, analytical techniques and practical related to allied fields.

Research Interests:

- Areas of interest:
 - a) Chemo-Sensor
 - b) Bio-application of Chemo-Sensor
 - c) Bulk and interfacial properties of the molecules

Research grants:

- Principal Investigator “Synthesis, structural and magnetic studies of copper (II) azido complexes”, UGC (University Grants Commission) MRP, sanction no. F. PSW-197/13-14 (ERO).

Selected Publications:

Papers (last five years)

1. P. P. Parui, A. Ray, **S. Das**, Y. Sarkar, T. Paul, S. Roy, R. Majumder and J. Bandyopadhyay, Glutathione selective *off-on* fluorescence response by probe displaced modified ligand for its detection in biological domain. *New J. Chem.*, **2019**, 43, 3750. (**Impact Factor: 3.2**)
2. Y. Sarkar, R. Majumder, **S. Das**, A. Ray and P. P. Parui, Detection of Curvature-Radius-Dependent Interfacial pH/Polarity for Amphiphilic Self-Assemblies: Positive versus Negative Curvature, *Langmuir*, **2018**, 34, 6271. (**Cover page journal**) (**Impact Factor: 3.8**)
3. R. Majumder, Y. Sarkar, **S. Das**, A. Ray and P. P. Parui, Interfacial pH and polarity detection of amphiphilic self-assemblies using a single Schiff-base molecule, *New J. Chem.*, **2017**, 41, 8536. (**Impact Factor: 3.2**)
4. **S. Das**, Y. Sarkar, R. Majumder, S. Mukherjee, J. Bandyopadhyay, A. Ray and P. P. Parui, A unique cysteine selective water soluble fluorescent probe operable in multiple sensing cycles for the detection of biogenic cysteine in multicellular living species, *New J. Chem.*, **2017**, 41, 1488. (**Impact Factor: 3.2**)

5. Y. Sarkar, **S. Das**, A. Ray, S. K. Jewrajka, S. Hirota and P. P. Parui, simple interfacial pH detection method for cationic amphiphilic self-assemblies utilizing a Schiff-base molecule, **Analyst**, **2016**, 141, 2030. **(Impact Factor: 3.9)**
6. R. Majumder, Y. Sarkar, **S. Das**, S. K. Jewrajka, A. Ray and P. P. Parui, A ratiometric solvent polarity sensing Schiff base molecule for estimating the interfacial polarity of versatile amphiphilic self-assemblies, **Analyst**, **2016**, 141, 3246. **(Impact Factor: 3.9)**
7. **S. Das**, Y. Sarkar, S. Mukherjee, J. Bandyopadhyay, S. Samanta, A. Ray and P. P. Parui, Selective fluorescence swing from cysteine to glutathione by switchover from solid to *in situ* probe in 100% water and bio-imaging studies for living species, **Sens. Actuators B**, **2015**, 209, 545. **(Impact Factor: 5.7)**
8. Y. Sarkar, **S. Das**, R. Datta, S. Chattopadhyay, A. Ray and P. P. Parui, Exploitation of a new Schiff-base ligand for boric acid fluorescent sensing in aqueous medium with bio-imaging studies in a living plant system, **RSC Adv.**, **2015**, 5, 51875. **(Impact Factor: 2.9)**
9. **S. Das**, S. Biswas, S. Mukherjee, J. Bandyopadhyay, S. Samanta, I. Bhowmick, D. K. Hazra, A. Ray and P. P. Parui, A cyanide selective *off-on* fluorescent chemo-sensor with *in vivo* imaging in 100% water: solid probe preferred over *in situ* generation, **RSC Adv.**, **2014**, 4, 9656. **(Impact Factor: 2.9)**

❖ **Participated in several National and International Seminar & Symposia for Paper/Poster presentation in his related field in Chemical Science.**

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700013

Professional Memberships and Activities:

Life member of Indian Association of Cultivation of Science & Indian Chemical Society