SURAJIT MONDAL

Mohar, Sabang, Paschim Medinipur, West Bengal, India, PIN: 721161 Email: surajitchem49@gmail.com Contact No: 8102905174, 7001024098



Objective

Recently, I have submitted my Ph.D. thesis in the field of Synthetic Organic Supramolecular Chemistry and looking forward to an opportunity to best utilize the academic & professional skills as a team effort for an organization to let it flourish more.

Personal Details

Father's Name: Saktipada Mondal Date of Birth: 10.03.1991 Place of birth: Mohar, Sabang Mather's Name: Manju Mondal

Gender : Male Religion: Hindu

Category : General

Educational Attainment

2015-peesent: Senior Research Fellow, IIT(ISM), Dhanbad, India 826004

Thesis title: "Synthesis of fluorescent sensors using triazole building block for

toxic heavy metal ions" (Thesis submitted in July, 2020)

Supervisor: Prof. Swapan Dey, Dept. of Chemistry, Email: swapan@iitism.ac.in

Master of Science in Chemistry (M. Sc) from IIT(ISM), Dhanbad, (OGPA 7.88 2012-2014:

out of 10)

Bachelor in Chemistry (B. Sc) from R.K.M.V.C. College, Rahara, (West Bengal 2009-2012:

State University), Barasat, WB (64.00%)

2007-2009: Higher Secondary (XII) from WBCHSE (80.00%)

2007: Secondary Education (X) from WBBSE (83.10%)

Training/Excursion

May, 2013-July, 2013: Summer Project, IIEST, Howrah, WB, India.

> Title of project: "Mononuclear Cu (ll)-Picolinamide Complex as Active Catalyst for Oxidation of Toluene and Ethyl Benzene". Project Guide: Prof. Papu Biswas, Dept. of Chemistry, IIEST, Shibpur

August, 2013-May, 2014: M. Sc project, IIT(ISM), Dhanbad, India. Title of project: "Corrosion inhibition of mild steel in 15% HCl". Project

Guide: Prof. M. Yadav, Dept. of Chemistry, IIT(ISM),

Dhanbad

Special Achievements

- ➤ Merit-Cum-Means Scholarship, West Bengal Govt. from 2007-2009
- ➤ Chief Minister Scholarship, West Bengal Govt. from 2007-2009
- Sarada Kalyan Bhandar Scholarship, Medinipur, from 2007-2009
- ➤ Merit-Cum-means Scholarship, West Bengal Govt. from 2009-2012
- ➤ Merit-Cum-means Scholarship, Jharkhand Govt. from 2012-2014

Skill and Expertise

(a) Research Skill

- > Experimental technique: Synthesis and purification (through column chromatography) of organic compounds, solvent distillation and drying, TLC plate preparation, extraction of organic substances from natural sources.
- Extraction and purification of chlorophyll from spinach.
- Analysis: Mercury, MestReNova, UV-probe, Olex2, ChemDraw, Origin, EndNote
- ➤ Instrument Operated: NMR, FTIR, UV-Vis, Fluorescence, TCSPC, Gaussian optimization technique and *Gaussian 09* software, HPLC, GCMS, FESEM

(b) Teaching Skill

- ➤ July 2015-November 2015: Organic Chemistry Practical of M. Sc 1st Semester
- ➤ January 2016-July 2016: Organic Chemistry Practical of M. Sc 3rd Semester
- ➤ July 2016-November 2016: Organic Chemistry Practical of M. Sc 1st Semester
- ➤ January 2017-July 2017: Organic Chemistry Practical of M. Sc 3rd Semester
- ➤ July 2017-November 2017: Organic Chemistry Practical of M. Sc 1st Semester
- ➤ January 2018-July 2018: Organic Chemistry Practical of M. Sc 3rd Semester
- ➤ July 2018-November 2018: Organic Chemistry Practical of M. Sc 1st Semester
- ➤ Teaching assistant of Physical Chemistry of M. Sc 2nd Semester from January 2019-July 2019
- ➤ July 2019-November 2019: Physical Chemistry Practical of M. Sc 3rd Semester

(c)Computer Skill

- Microsoft office
- Paint
- Adobe Photoshop
- > C++ programming

List of Publications

1. "Dual Core Clickate Fluorophores for Selective Recognition of Cu2+ and Ni2+ along with Live Cell Imaging".

<u>Surajit Mondal</u>, Chanda Kumari, Sumit K. Hira, and Swapan Dey; *Inorganica Chimica Acta* (2020): 119655.

- 2. "Unusual absence of FRET in triazole bridged coumarin-hydroxyquinoline, an active sensor for Hg²⁺detection". <u>Surajit Mondal</u>^a, Niladri Patra*^a, Hari Pada Nayek^a, Sumit K. Hira^b, Soumit Chatterjee*^a and Swapan Dey*^a; **Photochem. Photobiol. Sci, 2020** (Just accepted)
- 3. "Water switched aggregation/disaggregation strategies of a coumarin–naphthalene conjugated sensor and its selectivity towards Cu2+ and Ag+ ions along with cell imaging studies on human osteosarcoma cells (U-2 OS)". Ashish Kumar, <u>Surajit Mondal</u>, Kumari Somlata Kayshap, Sumit Kumar Hira, Partha Pratim Manna, Wim Dehaen, and Swapan Dey*; *New Journal of Chemistry* 42, no. 13 (2018): 10983-10988.
- 4. "Synthesis, characterizations and single crystal structure of di-nuclear azido-bridged Cd (II) coordination polymer with Schiff base precursor (H2LpentOMe): DFT, fluorescence, solvatochromism and in vitro antimicrobial assay." Dhrubajyoti Majumdar, Dhiraj Das, S. S. Sreejith, Sudip Nag, Swapan Dey, <u>Surajit Mondal</u>, Kalipada Bankura, and Dipankar Mishra; *Inorganica Chimica Acta* 496 (2019): 119069.
- **5.** "A triazole benzimidazole connected single probe selective '*turn-on*' sensor for Cd²⁺", Surajit Mondal, Sumit K Hira and Swapan Dey* (*Communicated*)
- **6.** "Triazole modified fluorescent sensors for detection of Al³⁺ and Bi³⁺ in aqueous solution"; <u>Surajit</u> <u>Mondal</u> and Swapan Dey, (*Ready to communicate*)

Seminar/Conference attended

ICEFN2016: Oral Presentation on "A rhodamine scaffold bis-triazole as highly fluorescent and chemosensor for selective detection of Fe³⁺ion and reversible off-on fluorescence response" – Organized by Kumaun University, Uttarakhand, India

ICCHD 2018: Poster Presentation on "Selective sensing of Hg²⁺ with an on-off sensor and its cell imaging study"- organized by Calcutta University, Kolkata, WB, India.

Extra Curricular Activities

I have a keen interest in different cultural events including one act Play, Recitation, Debate, Instant speech, Quiz Contest.