PERSONAL PROFILE

Dr. Sucheta Joy

Name: Dr. Sucheta Joy

Designation: Assistant Professor (Since 2015), Department of Chemistry, Rabindra Mahavidyalaya, Champadanga, Hooghly, West Bengal, Pin: 712401

Teaching Experience: ***11 years+*** *E-mail*: sjoyic@gmail.com

FIP/OP	RC
HRDC, CU (2017)	HRDC, BU & SU (2018, 2021)

Objective:

To obtain a good position in the field of Teaching and Research where one's innovative ideas, technical skills and abilities can be utilized for career advancement and to augment the growth of organization.

Academic Qualifications:

Examination	Year	Board/University
Secondary Examination	2000	Visva Bharati University
Higher Secondary Examination	2002	Visva Bharati University
Bachelor of Science in Chemistry (Honours)	2005	Visva Bharati University
Master of Science in Chemistry (Inorganic Chemistry Spl.)	2007	Visva Bharati University
Ph.D (Synthetic Inorganic Chemistry and Surface Chemistry) **Ph. D. Supervisor:** Professor Dr. Sreebrata Goswami**,** FNA	2012	Indian Association for the Cultivation of Science (Registered at Jadavpur University) ***Thesis Title*: "*Studies of Functionalized Azo-aromatics and their Coordination Compounds*"**

Scholarship, Fellowships and Awards:

- Qualified **NET** (National Eligibility Test, India) December 2006 with CSIR Fellowship.
- Qualified **GATE** (Graduate Aptitude Test In Engineering, India) February 2007, All India Rank: 229, GATE Score: 424.
- Awarded CSIR Junior Research Fellowship from July 02, 2007 to June 30, 2009
- Awarded CSIR Senior Research Fellowship from July 01, 2009 to June 30, 2012.

Research Publications:

1. Synthesis of Amphiphilic Azo-anion Radical Complexes of Chromium(III) and Development of Ultrathin Redox Active Surfaces by Langmuir-Schaefer Technique.
Sucheta Joy, Prabir Pal, Tapan Kumar Mondal, G. B. Talapatra* and Sreebrata Goswami*
Chem. Eur. J., **2012**, 18, 1761.

2. Isolation and Assessment of the Molecular and Electronic Structures of Azo-Anion-Radical Complexes of Chromium and Molybdenum. Experimental and Theoretical Characterization of Complete Electron-Transfer Series.
Sucheta Joy, Tobias Krämer, Nanda D. Paul, Priyabrata Banerjee, John E. McGrady* and Sreebrata Goswami*
Inorg. Chem., **2011**, 50, 9993.

3. Tailor made synthesis of amphiphilic azoaromatics *via* regioselective C–N bond fusion. Comparative studies of surface properties of the two positional isomers and cobalt complexes
Sucheta Joy, Prabir Pal, Mrityunjoy Mahato, G. B. Talapatra and Sreebrata Goswami*
Dalton Trans., **2010**, 39, 2775.

4. Hydrido iridium (III) complexes of azoaromatic ligands. Isolation, structure and studies of their physicochemical properties.
Manashi Panda , Nanda D. Paul , **Sucheta Joy** , Chen-Hsiung Hung , Sreebrata Goswami*
Inorganica Chimica Acta, **2011**, 372,168 (Special Issue)

5. ortho-C_{arom}–N bond fusion in aniline associated with electrophilic chlorination reactions at ruthenium(III) coordinated acetylacetonates.
Sudipta Chatterjee, Sutanuva Mandal , **Sucheta Joy** , Chen-Hsiung Hung and Sreebrata Goswami*
Inorganica Chimica Acta, **2011**, 374, 366 (Special Issue)

6. Redox Noninnocence in Coordinated 2-(Arylazo)pyridines: Steric Control of Ligand-Based Redox Processes in Cobalt Complexes
   Pradip Ghosh, Subhas Samanta, Suman K Roy, **Sucheta Joy**, Tobias Krämer, John E. McGrady* and Sreebrata Goswami*

   Inorg. Chem., **2013,** Issue 24, Vol-52, Page 14040-14049.

7. Understanding the Difference in Photophysical Properties of Cyclometalated Iridium(III) and Rhodium(III) Complexes by Detailed TDDFT and FMO Supports
   Pal, Siddhartha; **Joy, Sucheta**; Paul, Hena; Banerjee, Snehasis; Maji, Abhishek; Zangrando, Ennio; Chattopadhyay, Pabitra*
   (Communicated: **The Journal of Physical Chemistry C,** Manuscript ID: jp-2016-126654)

Professional Competence:

I have experiences in handling the following instruments and I am familiar with the techniques that are used to understand the structure-function relationship of coordination complexes as well as preparation and characterization of thin films of the synthesized molecules.

- Bruker SMART APEX-II CCD diffractometer
- Glove-box and Schlenk line Technique
- Purification of compounds by TLC and column chromatography.
- UV-VIS (Perkin-Elmer Lambda 950).
- Electrochemistry System (PC-controlled PAR model 273A system).
- Bruker 300 MHz FT NMR spectrometer.
- X band EPR (JEOL JES-FA200 spectrometer).
- IR (Perkin-Elmer 783) spectrophotometer.
- Perkin-Elmer 240C elemental analyzer.
- Q-Toff mass spectrometer.
- Magnetic moment measurements (PAR 155 vibrating sample magnetometer).
- Systronics Direct Reading Conductivity meter 304.
- Experience in thin film deposition by Langmuir-Blodgett (LB)/Langmuir-Schaefer (LS) technique (model LB2007DC, Apex Instruments Co., Kolkata, India).
- High Resolution Field Emission Scanning Electron Microscopy (FE-SEM, model No.: JEOL JSM-6700 F)
- Atomic Force Microscope (AFM, VECCO diCP-II (Model No AP-0100)).