



Dr. Sharmila Pandey

Associate Professor

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Educational Qualification:

Ph.D. (Chemistry) (Awarded in 2010)

Total Experience: 6 years

Academic: 6 years | Industry: Nil | Research: 6 years

Areas of Interest:

Metal coordination chemistry towards sustainable catalytic and environmental application.

Brief Profile:

After receiving the MSc degree, specializing in Inorganic Chemistry, from the University of Burdwan (West Bengal), Sharmila Pandey completed her PhD in 2010 from IIT Kanpur working in the field of Coordination Chemistry under the supervision of Professor R. N. Mukherjee. Then, she moved to Bar Ilan University, Israel for post-doctoral research on Nanotechnology based on Inorganic Materials. After returning to India, she worked as a DST Women Scientist at IISER Bhopal for three years. She was a Lab Instructor for teaching UG and PG laboratory courses there during that period. Currently she is an Associate Professor at SAGE University Bhopal, Madhya Pradesh. Recently, she has been awarded with the Teachers Associateship for Research Excellence from SERB, Govt. of India.

Work Experience:

Feb 2020-Present	SAGE University Bhopal, India
Mar 2016-Mar 2019	DST Women Scientist, IISER Bhopal, India
Jan 2016-Mar 2016	Project Laboratory Instructor, IISER Bhopal, India
Dec 2010-Apr 2011	Postdoctoral Research Associate, Bar-Ilan University, Israel

Research Projects Undertaken:

- 2016-2019 Project Title: “*Exploring Convergent Coordination Chemistry of Benzotriazole-Based Nitrogen-Rich Ligands*”.
Sponsoring Agency: DST, Govt. of India (Scheme: WOSA; Project Value: Rs. 29.48 lakhs)
- 2020-2023 Project Title: “*Designing Multidentate Ligand Templates on Benzotriazole Backbone with N and O Donor Pendants: Evaluation of Stereo electronic Influence and Catalytic Benefits of Copper and Ruthenium Complexes*”.
Sponsoring Agency: DST-SERB, Govt. of India (Scheme: TARE; Project Value: Rs. 18.30 lakhs)

Research Publications in International Journals:

Total Citation Index: 82 (h-index: 03, i10-index: 02)

1. Probing the Strong Electron-Acceptor Property of Pyridine-Appended 1,2,3-Benzotriazole Ligand in Tris-Homoleptic Ru(II) and Fe(II) Complexes. **Sharmila Pandey***, Tanmoy Mandal, Sanajit Kumar Mandal. *Polyhedron*, **2022** (Just accepted) (Impact Factor 3.01)
2. **Sharmila Pandey*** and Tanmoy Mandal. Discrete Benzotriazole-Copper(II) Complexes in Chelated and Non-Chelated Coordination Modes: Structural Analysis and Catalytic Application in Click and A3 Coupling Reactions. *Eur. J. Inorg. Chem.* **2021**, 1673-1769 (Impact Factor-2.55).
3. **Sharmila Pandey***, Tanmoy Mandal and Vivek Singh. (para-Cymene)Ru(II) Complexes with Chelating Benzotriazole Ligands: Application in Oxidation and Reduction Catalysis, *ChemistrySelect* **2020**, 5, 823-828 (Impact Factor 2.23).
4. **Sharmila Pandey** and Rabindranath Mukherjee*. Crystal structure of dichloro[(N-phenylcarbamoyl)pyridine]bis(dimethylsulphoxide)ruthenium(II). A voltammetric study to monitor acid-base controlled N,O to N,N donor site switchover *J. Indian Chem. Soc.* **2016**, 93, 1027-1034. (Impact Factor (0.24).
5. **Sharmila Pandey**, Partha Pratim Das, Akhilesh Kumar Singh and Rabindranath Mukherjee*. Cobalt(II), nickel(II) and copper(II) complexes of a hexadentate pyridine amide ligand. Effect of donor atom (ether vs. thioether) on coordination geometry, spin-state of cobalt and $M^{III}-M^{II}$ redox potential. *Dalton Trans.* **2011**, 40, 10758-10768 (Impact Factor 4.57).
6. Wilson Jacob, Haritosh Mishra, **Sharmila Pandey**, Francesc Lloretb and Rabindranath Mukherjee*. Six-coordinate Co^{III} and four-coordinate M^{II} (M = Co, Zn) mixed-valence dimers supported by a deprotonated pyridine amide ligand. *New J. Chem.* **2009**, 33, 893-901 (Impact Factor 3.93).

Papers/Poster presented in International Conferences: Nil

Papers/Poster presented in National Conferences:

1. "Ferrocene based anion receptors: A voltammetric study" at the 12th Symposium on Modern Trends in Inorganic Chemistry (**MTIC-XII**), 6-8th December, **2007, IIT Madras**, India.
2. "Six-coordinate Co^{III} and four-coordinate M^{II} (M = Co, Zn) mixed-valence dimers: magnetism of a Co^{III}Co^{II} complex and C-H...O/Cl/Br interactions" at the 11th Symposium on Chemical Research Society of India (**CRSI NSC-11**), 6-8th February, **2009, NCL Pune**, India
3. "Homo-/Hetero-bimetallic complexes of pyridine/pyrazine amide ligands: An account" at **CHEM FEST**, 31st October, **2009, IIT Kanpur**, India.
4. "Convergent Coordination of Benzoriazole-Based Nitrogen-Rich Ligands": at the 25th Symposium on Chemical Research Society of India (**CRSI NSC-25**), 19-21st July, **2019, IIT Kanpur**, India.

Patents: Nil

International/National Conference & Workshops Attended:

1. Modern Trends in Inorganic Chemistry (**MTIC-XII**), 6-8th December, **2007, IIT Madras**, India.
2. Chemical Research Society of India (**CRSI NSC-11**), 6-8th February, **2009, NCL Pune**, India.
3. **CHEM FEST**, 31st October, **2009, IIT Kanpur**, India.
4. Chemical Research Society of India (**CRSI NSC-25**), 19-21st July, **2019, IIT Kanpur**, India.
5. Chemical Research Society of India (**CRSI NSC-27**), 26-30th September, **2021, (online mode)**.

FDP Attended: Nil

Awards/Recognitions:

- 2003 National Scholarship (Govt. of India) for Masters Studies (2003-2005)
2005 Graduate Aptitude Test in Engineering (GATE) from the IITs, India for PhD
2016 DST Women Scientist (DST, Govt. of India), 2016
2020 Teachers Associateship for Research Excellence (SERB, Govt. of India), 2020

Workshops/Seminars/Conference Organized:

1. Organizing Committee Member for the International Conferences on "Recent Advances in Sciences and Engineering", held at SAGE University Bhopal, India on 23rd April 2022.
2. Organizing Committee Member for the National E-Conference on "Recent Advances in Science and Technology, in association with IETE, New Delhi and IBA, on 19th June 2021.

Membership of Professional Bodies:

Life Member of Chemical Research Society of India (CRSI)