

TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Departimento di Chemistry**
Scientist- in - charge: Prof. Emma Gallo

JYOTIRMOY DEY

PERSONAL INFORMATION

Surname	DEY
Name	JYOTIRMOY

PRESENT OCCUPATION

Appointment	Structure
PhD Research Scholar	Department of Chemistry, Central University of Rajasthan, India

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Bachelor Degree	BSc. (Hons) Chemistry	Jamia Millia Islamia	2009
Master Degree	MSc. Inorganic Chemistry	Jamia Millia Islamia	2011
PhD	PhD Chemistry Research Area: Transition Metal Based Homogeneous Catalysis, C-H Activation, Atom/Group Transfer Reaction, Click Chemistry, Schiff's Base and N- heterocyclic carbene ligands Research Thesis Title: "Development of Transition Metal Based Catalysts for Atom/Group Transfer Reactions and Azide-Alkyne Cycloaddition"	Central University of Rajasthan	Thesis Submitted on 30/12/2022

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FOREIGN LANGUAGE

Languages	level of knowledge
English	Proficient
Hindi	Proficient

TRAINING OR RESEARCH ACTIVITY

PhD Research Work(2015-Present) Thesis Submitted

During my PhD research work on the topic entitled “**Development of Transition Metal Based Catalyst for Atom/Group Transfer Reactions and Azide-Alkyne Cycloaddition**”. I have performed the following research activities:

1. Bis(imino)pyridine-Cobalt(II) complexes: Synthesis, characterization and catalytic activity in benzylic C(sp³)-H amination reactions.
2. Bis(imino)pyridine-Manganese(II) complexes: Synthesis, characterization and catalytic activity in benzylic C(sp³)-H oxidation reactions.
3. Zinc-bis(imino)pyridine complexes as catalysts for Azide-Alkyne cycloaddition in water.

Technical Skills During PhD at Central University of Rajasthan, India

- ❖ Expertise in handling NMR Spectrophotometer (Bruker Avance, 500MHz) manually as well as automatically. Expert in filling liquid Nitrogen in the NMR Spectrophotometer.
- ❖ Expertise in operating UV-Visible Spectrophotometer (Agilent-Carry 100) and Melting point apparatus.
- ❖ Expert hand in crystallization.
- ❖ I have supervised M.Sc final year students in their projects
- ❖ I have also supervised B.Sc and MSc students in their particle class.

CONFERENCES AND SEMINARS

Date	Title	Place
18 th March, 2016	Poster presentation entitled “ Synthesis and characterization of zinc(II) complexes by fluorinated β-diketimine ligands ” in National Symposium on “Emerging Trends in Applied Chemical Sciences (ETACS-2016)”	Department of Chemistry, Central University of Rajasthan, Rajasthan, India
3 rd -5 th February, 2017	Poster presentation entitled “ New water soluble bis-N-heterocyclic carbene ligands and their metal complex: Synthesis and characterization ” in 20 th CRSI National Symposium in Chemistry	Department of Chemistry, Gauhati University, Assam, India.
13 th -15 th October, 2018	Poster presentation entitled “ Synthesis and catalytic application of new bis(imino)pyridine ligand based manganese(II) complexes ” in VI Rajasthan	Central University of Rajasthan, Rajasthan, India.

	Science Congress (RSC) on Innovation in Science and Technology for Sustainable Development	
21 st -22 nd December, 2018	Poster presentation entitled “ Synthesis and characterization of new bis(imino)pyridine ligand based cobalt(II) complexes ” International Conference on “ <i>Frontiers at the Chemistry - Allied Sciences Interface (FCASI-2018)</i> ”	Department of Chemistry, University of Rajasthan, Jaipur, Rajasthan, India.
5 th -9 th December, 2016	Global Initiative Of Academic Networks (GIAN) Lecture Course in “ Bioinorganic Chemistry ”	Central University of Rajasthan, Rajasthan, India (Sponsored By Ministry of Human Resource Development, Govt. of India).
18 th -24 th October, 2020	Workshop on “ Spectroscopic Techniques Using Sophisticated Instruments ”	Department of Chemistry, Central University of Punjab, Bhatinda, Punjab, India (Sponsored by SERB, Govt. of India). Online

PUBLICATION

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| <p>1. “Zinc-bis(imino)pyridine Complexes as Catalysts for Azide-Alkyne Cycloaddition in Water.” Jyotirmoy Dey; Seema Yadav; Ajeet Singh; Chandrakanta Dash*<i>Chemistry Select</i>, 2022, 7, e202202239.</p> |
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Place: New Delhi, India

Date: 4th May, 2023

Signature:

Jyotirmoy Dey_

