



# DR. UDAY SANKAR AGARWALLA

## PROFILE

### EMAIL ID:

udaygrwlla@gmail.com

### DATE OF JOINING

24.04.2007

## DESIGNATION

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ASSOCIATE PROFESSOR, DEPARTMENT OF CHEMISTRY

## QUALIFICATION

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- **Ph.D.**, University of North Bengal, 2014
- State Level Eligibility Test (**SLET**), 2005
- National Eligibility Test (**NET**), 2004
- **M.Sc.** in Chemistry, University of North Bengal, 2004

## WORK EXPERIENCE

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**2007-Continued:** As Assistant Professor, Associate Professor, P. D. Women's College, Club Road, Jalpaiguri, West Bengal.

## RESEARCH INTEREST

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Cyclometallation, C-H Bond Activation, Catalysis

## DETAILS OF RESEARCH PROJECT BEING COMPLETED/ ONGOING/SANCTIONED:

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1. **Project Title:** Synthesis, Characterization and Catalytic Properties of Transition Metal Complexes towards Oxidation of Organic Compounds  
**Funding Agency:** UGC  
**Project Type:** Minor  
**Project Status:** Completed

2. **Project Title:** Transition Metal Complex Catalyzed Oxygenation Reactions  
**Funding Agency:** UGC  
**Project Type:** Minor  
**Project Status:** Completed

#### **LIST OF PUBLICATION**

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1. **U. S. Agarwalla**, Cyclopalladates of 1-(2'-hydroxynaphthylazo) naphthalene Complexes: Oxygen Insertion into the Palladium-Carbon (Naphthyl) Bond, International Journal of Chemical Research and Development, 2023, 5(2), Page 4-10.
2. **U. S. Agarwalla**, Oxidation of TTBP by Hydrogen Peroxide using Non-heme Diiron (III) Complex, Journal of Chemical, Biological and Physical Sciences, 2022, 13 (1), Page 12-16.
3. **U. S. Agarwalla**, Bioinspired Non-heme Diiron Catalysts for Olefin Epoxidation with Hydrogen Peroxide in the Presence of Acetic Acid, International Journal of Science and Research, 2022, 11 (4), Page 1089-1093.
4. **U. S. Agarwalla**, Mo- and W-containing Layered Double Hydroxides: Mild and Selective Oxidation of Alkenes with H<sub>2</sub>O<sub>2</sub>, Indian Journal of Chemistry: Section A, 2021, 60A, Page 656-662.
5. **U. S. Agarwalla**, Catalytic Oxyfunctionalization of Saturated Hydrocarbons by Non-heme Oxo-bridged Diiron (III) Complexes: Role of Acetic Acid on Oxidation Reaction, Transition Metal Chemistry, 2020, 45 (8), Page 583–588.
6. **U. S. Agarwalla**, Synthesis, Characterization and Catalytic Activity of Mononuclear Iron (III) Complexes towards Hydrocarbon Oxidation at Room Temperature, Rasayan Journal of Chemistry, 2020, 13 (2), Page 960-967.
7. **U. S. Agarwalla**, Epoxidation of Alkenes using Cost-effective Green Oxidant under Eco-friendly Reaction Condition, Journal of Indian Chemical Society, 2019, 96, Page 1553-1557.
8. **U. S. Agarwalla**, Room Temperature Epoxidation of Alkenes with H<sub>2</sub>O<sub>2</sub> Catalyzed by Heteropolyoxometalate, Rasayan Journal of Chemistry, 2018, 11 (2), Page 756-761.

9. **U. S. Agarwalla**, Heteropolyoxometalate Catalyzed Selective Oxidation of Alcohols to Carbonyl Compounds by  $H_2O_2$  under Mild Condition, Silpakorn University Science and Technology Journal, 2017, 11 (3), Page 25-31.
10. A. N. Biswas, P. Das, **U. S. Agarwalla**, A. Saha and P. Bandyopadhyay, (E)-4-[[2-(Methylsulfonyl)phenyl]diazenyl]phenol, Acta Crystallographica Section E, 2007, E63, o3114.

#### **AWARDS/HONORS RECEIVED**

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1. Recipient of University **Medal for Securing 1<sup>st</sup> Class 1<sup>st</sup> Position** B.Sc. Chemistry Honours Examination, 2002.
2. Recipient of University **Medal for Securing 1<sup>st</sup> Class 1<sup>st</sup> Position** in M.Sc. (Chemistry) Examination, 2004
3. Recipient of **SURENDRANATH BHATTACHARYA Medal** donated by Sri Anandamay Bhattacharya for Securing 1<sup>st</sup> Class 1<sup>st</sup> Position in M.Sc. (Chemistry) Examination, 2004.

#### **SEMINARS AND CONFERENCE ATTENDED**

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1. **Presented** poster in the International Seminar on International Year of the Periodic Table of Chemical Elements-2019, Organized by Department of Chemistry, University of North Bengal on November 22-23, 2019.
2. **Presented** poster in Frontiers in Chemistry-2018, Organized by Department of Chemistry, University of North Bengal on August 27, 2018.
3. **Presented** poster in National Symposium on Emerging Trends in Chemistry (ETC-2016), Organized by North Eastern Hill University (NEHU), Shillong on March 28-29, 2016.
4. **Presented** poster in International Seminar on Exploring Chemistry for the Development of North Bengal, Organized by Department of Chemistry, Raiganj University on March 19, 2016.
5. **Presented** poster in Frontiers in Chemistry-2015, Organized by Department of Chemistry, University of North Bengal on February 17-18, 2015.

6. **Presented** poster in the 12<sup>th</sup> Biennial Symposium on Modern Trends in Inorganic Chemistry (MTIC-XII), Organized by Department of Chemistry, IIT Madras, Chennai on December 6-8, 2007

#### **EXTERNAL RESPONSIBILITY**

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1. Member (University Nominee), Governing Body of Ananda Chandra College of Commerce, Jalpaiguri.
2. Member, Board of Under Graduate Studies in Chemistry, University of North Bengal (2017 to 2023).
3. Member, Board of Under Graduate Studies in Chemistry, Cooch Behar Panchanan Barma University (2019 to 2023).