

## CURRICULUM VITAE

Dr. Maruf Chauhan

### Dr. Maruf Chauhan

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Tel: +91-8512057014, (Mobile)



**Area Expertise-** Green synthesis of Nano Materials, Catalysis, drug delivery & environmental remediation

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### Academic Qualifications

**Ph.D. in Chemistry** at Department of Chemistry, University of Delhi, India (2022)

**Thesis Title: “Biogenic Synthesis of Metal Oxide Nanoparticles, nanocomposites of Metal Oxide and their Catalytic Applications”.**

**PhD Supervisor:** Professor Priti Malhotra, Department of Chemistry, University of Delhi, India.

**M.Sc. Chemistry** (Specialization: **Organic Chemistry**), DN PG college, Ch. Charan Singh University, Meerut Uttar Pradesh India 2013, **67.45%**

**B.Sc.** DN PG college, Ch. Charan Singh University, Meerut Uttar Pradesh India 2011, **66.86%**

### Teaching Experience

- **Guest Faculty** at Department of Chemistry, Miranda house, University of Delhi, Delhi. (**Nov. 2023-Present**)
- **Guest Faculty** at Department of Chemistry, GGS IP University, Delhi. (**July 2022-Dec. 2022**)
- **Assistant Professor (Adhoc)** at Gyan Bharti Institute, Meerut, AKT University (**Jan. 2022-June 2022**)

### Subjects Taught

#### Undergraduate & Postgraduates Courses

1. Reaction Mechanism (Organic Chemistry)
  2. Heterocyclic chemistry
  3. Organometallic Chemistry both previous and Final Year M.Sc. Chemistry
  4. Engineering chemistry for B. Tech (theory)
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## Work & Publications

1. **Maruf Chauhan**, Sushma Yadav, Priti Malhotra, In-situ biogenically synthesized Cu<sub>2</sub>O/RGO composite using beetroot peel extract for selective and efficient reduction of cinnamaldehyde in water. **Appl Nanosci** (2022). <https://doi.org/10.1007/s13204-022-02699-w>
2. **Maruf Chauhan**, Sushma Yadav, MercyKutty Jacob, Priti Malhotra, Distinguished performance of biogenically synthesized reduced-graphene-oxide-based mesoporous Au–Cu<sub>2</sub>O/RGO ternary nanocomposites for sonocatalytic reduction of nitrophenols, **RSC New Journal of Chemistry (NJC)** , 9685-9694.
3. **Maruf Chauhan**, Sushma Yadav, Rama Pasricha, and Priti Malhotra, Water Chestnut Peel Facilitated Biogenic Synthesis of Zinc Oxide Nanoparticles and their Catalytic Efficacy in the Ring-Opening Reaction of Styrene Oxide, **Chemistry Select**, [doi.org/10.1002/slct.202102031](https://doi.org/10.1002/slct.202102031).
4. **Maruf Chauhan**, Sushma Yadav, Divya Mathur, Arti Jain, and Priti Malhotra\*, Sugarcane bagasse-facilitated benign synthesis of Cu<sub>2</sub>O nanoparticles and its role in photocatalytic degradation of toxic dyes: a trash to treasure approach. **Environ Dev Sustain** (2020). <https://doi.org/10.1007/s10668-020-00664-7>.
5. Divya Mathur, Priti Malhotra, **Maruf Chauhan** and Sushma Yadav; Biogenic Synthesis of Iron Nanoparticles and their Applications; Conference Proceedings of the National Conference on Innovations in Sciences and Emerging Challenges in Health and Environment, Page 78-85, 2018, ISBN:
6. **Maruf Chauhan**, Sushma Yadav, Divya Mathur, Arti Jain, and Priti Malhotra\*, Biogenic synthesis of Cu<sub>2</sub>O/ZnO nanocomposites using Beetroot extract and its photocatalytic application in the degradation of Doxycycline, **RSC New Journal of Chemistry (NJC)**



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### Laboratory Skills and Research Experience

- Synthesis of Nanomaterial.
- Understanding of optical spectroscopic tools such as UV-Vis, Fluorescence and different analytical characterizations such as FT-IR, XRD, SEM, TEM, DLS, NMR techniques and their application.
- Experience in the synthesis of some ionic liquid, nanoparticles for various catalytic applications.

### Analytical Techniques

- Picosecond-resolved fluorescence spectroscopy (Time-correlated single photon counting technique), Steady-state fluorescence spectroscopy, Steady state and Time dependent anisotropy, Dynamic light scattering technique etc.
- NMR, FT-IR, SEM, TEM, XRD, DLS, TGA and CHNS analyzer.

**Software:** MS Office (MS Word, MS Excel & MS PowerPoint), Origin, Corel Draw, M nova, Chem Draw, End Note.

### Conferences & Workshops

- Participation in the National Conference on “Recent Trends in Chemistry and Nano-Biotechnology (RTCN-2022)” held on 13th December 2022, as an Organizing Committee member at Department of Chemistry, University of Delhi, Delhi-7 India.
- Participation in the International Conference on “Contributions of Acharya Prafulla Chandra Ray as a Chemist and Freedom Fighter” held on 02-03 August, 2022 as a part of the Azadi ka Amrit Mahotsava organized by Vijnana Bharati & Ministry of Culture, Government of India in Association with Indraprastha Vigyan Bharati and Department of Chemistry, University of Delhi.
- Participation in the National Workshop on "**Understanding the Vulnerability and Risk Associated with Urban Areas**" held on 23-27 Nov 2021 at National Institute of Disaster Management, Ministry of Home Affairs, and Govt. of India in collaboration with the Center for Environmental Studies & Disaster Management Miranda House and Department of Environmental Studies University of Delhi.
- Poster Presentation in the National Conference on “Recent Trends and Advancements in Chemical Science” held on 29-31 March 2019 at the Department of Chemistry and Bhaskracharya College of Applied Science University of Delhi.
- Poster Presentation in the International Conference on “Advanced in applied Science and Technology” held on 17-18<sup>th</sup> August 2017, at Department of Chemistry, KR Mangalam University.
- Participation in the International Seminar on “Effects of Pollution on human health” held on 11<sup>th</sup> December 2017, at the Department of Chemistry, University of Delh



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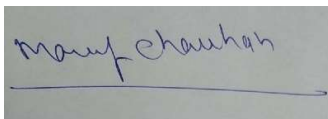


### Major Achievements and Awards

- Senior Research Fellowship (CSIR-UGC, INDIA). The period from Dec 2018- Dec 2021.
- Junior Research Fellowship (CSIR-UGC, INDIA). The period from Dec 2016- Dec 2018.
- Secured All India Rank 26 in CSIR-NET/JRF 2015.
- Secured All India Rank 43 in CSIR-NET/JRF 2016.
- Secured All India Rank 73 in CSIR-NET/JRF 2017.
- Secured All India Rank 14 in CSIR-NET/JRF 2019.
- Secured All India Rank 207 in GATE 2015.
- Secured All India Rank 282 in GATE 2017.
- Secured All India Rank 2231 in GATE 2019.
- Qualified TIFR Entrance exam for Ph.D. in Dec 2014
- **Best Poster Presentation** Award in National Conference on “**Recent Trends in Chemistry and Nano-Biotechnology (RTCN-2022)**” held at Department of Chemistry, University of Delhi, Delhi-7, India.

### Declaration:

I declare that the information given above is true to the best of my knowledge and belief and nothing has been hidden.



05-02-2024

### References:

#### Prof. Priti Malhotra

Professor, University of Delhi, Delhi-110007, India  
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Email Id: [primalhotra21@gmail.com](mailto:pritimalhotra21@gmail.com)

#### Prof. Rakesh Kumar

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