

**Dr. Renu Gautam**

Designation Assistant Professor

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E-mail- [renu.gautam84@gmail.com](mailto:renu.gautam84@gmail.com)**Educational Qualifications**

Degree	Institution	Year
Ph.D (Organic Chemistry)	Department of Chemistry, University of Delhi	2015
M.Sc. (Chemistry)	Dr. Bhim Rao Ambedkar University, Agra	2008
B.Sc. (Life Science)	Dr. Bhim Rao Ambedkar University Agra	2006

**Carrier Profile:**

- ❑ (07 January 2022- Till date) as **Assistant Professor** (Ad-hoc) in Gargi college, University of Delhi.
- ❑ (January 2020- May 2020) worked as **Assistant Professor** (Guest faculty) in ANDC, University of Delhi.
- ❑ (29 July 2019- 30 September 2019) as **Assistant Professor** (Ad-hoc) in Gargi college, University of Delhi.
- ❑ (25 February 2019- 20 April 2019) as **Assistant Professor** (Ad-hoc) in Gargi college, University of Delhi.
- ❑ (January 2019- April 2019) worked as **Assistant Professor** (Guest faculty) in ANDC, University of Delhi.
- ❑ (August 2018- November 2018) worked as **Assistant Professor** (Guest faculty) in ANDC, University of Delhi.
- ❑ (January 2018- April 2018) worked as **Assistant Professor** (Guest faculty) in ANDC, University of Delhi.
- ❑ (October 2017- November 2017) worked as **Assistant Professor** (Guest faculty) in ANDC, University of Delhi.
- ❑ (January 2017 - April 2017) Worked as **Assistant Professor** (Guest faculty) in **Deshbandhu** College, University of Delhi.
- ❑ (August 2016 - November 2016) Worked as **Assistant Professor** (Guest faculty) in **Deshbandhu** College, University of Delhi.
- ❑ (February 2016 - April 2016) Worked as **Assistant Professor** (Guest faculty) in **Deshbandhu** College, University of Delhi.

- (January 2015 - April 2015) Worked as **Assistant Professor** (Guest faculty) in **Hansraj College, University of Delhi**.

### **Administrative Assignments**

NIL

### **Areas of Interest / Specialization**

Organic Chemistry, Analytical Chemistry

### **Subjects Taught**

**Organic Chemistry:** Atomic Structure, Bonding, General Organic Chemistry & Aliphatic Hydrocarbons, Functional Group Organic Chemistry, Biomolecules, Polynuclear hydrocarbon, UV, IR spectroscopy.

**Basic Analytical Chemistry**

### **Research Guidance**

NIL

### **Research Publications:**

1. **Renu Gautam** and Shive M. S. Chauhan\*, Surfactant assisted self-assembly of zinc 5,10-bis (4-pyridyl)-15,20-bis(4-octadecyloxyphenyl) porphyrin into supramolecular nanoarchitectures, *Materials Science and Engineering C*, **2014**, 43, 447-457 (**Impact factor 3.4**)
2. Pratibha Kumari\*, **Renu Gautam**, Harshit Yadav, Vikas Kushwaha, Avinash Mishra, Shilpi Gupta and Veena Arora, Efficient Reduction of C–N Multiple Bonds Catalyzed by Magnetically Retrievable Magnetite Nanoparticles with Sodium Borohydride, *Catal Lett*, **2016**, DOI 10.1007/s10562-016-1822-6. (**Impact factor 2.3**)
3. Pratibha Kumari,\* **Renu Gautam** and Archana Milhotra, Application of Porphyrin nanomaterials in Photodynamic therapy, *Chem. Biol. Lett.*, **2016**, 3, 32-37. (**Impact factor 2.7**)
4. **Renu Gautam**, Sweta Mishra, Archana Milhotra, Ritika Nagpal, Mradul Mohan, Anchal Singhal, Pratibha Kumari\*, Challenges with Mosquito-borne Viral Diseases: Outbreak of the Monsters, *Curr.Top.Med.Chem* **2017**, 17, 2199-2214. (**Impact factor 2.9**)
5. **Renu Gautam** and Shive M. S. Chauhan\*, Self assembly of 5,10-bis (4-pyridyl)-15,20-bis (4-hydroxyphenyl) porphyrin into different nanoarchitectures using different methods, *Current Organic Chemistry*, **2017**, 21, 1037-42 (**Impact factor 1.9**)
6. Sohail Ahmad, **Renu Gautam**, Anchal Singhal, S.M.S.Chauhan, Significant effect of 5,10,15,20 meso-tetraarylporphyrinato iron chloride/triflate and acidic/neutral/basic imidazolium ionic liquids in catalytic oxidation of phenols., *J. Mol.liquids*, **2018**, 260, 292-303. (**Impact factor 3.9**)
7. Uma Narang, **Renu Gautam**, Kumar Karitkey Yadav, Soumee Bhattacharya, P. K. Sahu, Anil K. Aggarwal, and Shive M. S. Chauhan, Hydrogen bond controlled self-assembly of nanostructured triazine-functionalized new porphyrin molecule, *Chemical papers*, **2022**, 6, 3759-3769 (**Impact factor 2.1**)

## International/ National Seminars/Conferences:

### INTERNATIONAL

1. Poster presented in "**International Symposium on Bioorganic Chemistry (ISBOC-10)**" organised by Indian Institute of Science Education and Research, Pune on 11<sup>th</sup> to 15<sup>th</sup> January 2015.
2. Poster presented in 20th ISCB international conference on "**Chemistry and Medicinal Plants in Translational Medicine for Healthcare**" organized by Department of Chemistry, University of Delhi on 1st to 4th march 2014.
3. Poster presented in 3rd international conference on "**Heterocyclic Chemistry**" organized by Department of Chemistry, University of Rajasthan, Jaipur on 10th to 13th December 2011.
4. Poster presented in International conference on "**Trends in Drug Discovery and Development (T3D-2010)**" organized by Department of Chemistry, University of Delhi on 5th to 8th January 2010.

### NATIONAL

1. Poster presented in National conference in Chemistry on "**Environment and Harmonious Development**" organized by Shyam Lal College, University of Delhi on 7<sup>th</sup>-8<sup>th</sup> April 2016.
2. Poster presented in national seminar on "**chemistry in interdisciplinary applications**" organized by Department of Chemistry, Hans Raj College, University of Delhi on 19th march 2013.
3. Attended workshop on "**Emerging Trends in Development of Drug and Device**" organized by Department of Chemistry, University of Delhi on 21<sup>st</sup> to 23rd January 2013.
4. Poster presented in Indo-German workshop in "**Indo-German workshop on new perspectives for nano-carriers in biomedical applications**", University of Delhi, Jan 14, 2013
5. Participated in 4th Indo-Italian Seminar on "**Green Chemistry and Natural Products**" organized by Department of Chemistry, University of Delhi on 17<sup>th</sup> November 2010.
6. Workshop on "**Information Literacy and Competency**" organized by University of Delhi library system on 17th January 2013.
7. Author workshop conducted by **Springer** in collaboration with the University of Delhi library system on 23rd august 2012. **How to Write for and Get Published in Scientific Journals and Published manuscripts.**

## Research Guidance

NIL

## Research Projects (Major Grants/Research Collaboration)

NIL

## Awards and Distinctions

Awarded "**Junior Research Fellowship and Senior Research Fellowship**" sponsored by "**Council of Scientific and Industrial Research,**" in December, 2009.

Qualified **GATE in Chemical Science** organized by IIT in 2009 (90 percentile)