

## Curriculum Vitae

Dr. Mamta Sethi

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### Academic Qualifications:

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- **2006-2010:** Ph.D. Computational Chemistry, Department of Chemistry, University of Delhi
- **2004-2006:** M.Sc. (Physical Chemistry), Hindu College, University of Delhi
- **2000-2004:** B.Sc.-B.Ed. (4 years integrated course), Regional Institute of Education, Ajmer (NCERT), Rajasthan

**Field of specialization:** Physical Chemistry, Computational Chemistry

**Papers Taught:** Quantum Chemistry, Molecular spectroscopy, Molecular Modelling & Drug Design

**Total Teaching Experience :** Total 13+ of years (since 2009)

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**Current Position** (July 2019- present)

Assistant Professor, Department of Chemistry, Miranda House, University of Delhi

### Previous Positions

- (July 2014 - April 2018 & July 2009 - Aug 2010)

Assistant Professor, Department of Chemistry, University of Delhi

- (August 2011 - March 2014)

Assistant Professor, Department of Chemistry, KiroriMal College, University of Delhi

- (August 2010 - Aug 2011)

Assistant Professor, Department of Chemistry, HansRaj Collge, University of Delhi

### Publications

1. Swati Negi, Parveen Gahlyan, Rashim Bawa, Bholey Singh, **Mamta Bhandari**, Rita Kakkar, Balaram Pani and Rakesh Kumar. **(2023)** *Analytical Methods (Royal Society of Chemistry)*.
2. Harshita Jain, Nidhi Deshwal, Swati Negi, Priya Takkar, **Mamta Bhandari**, Rita Kakkar and Rakesh Kumar. **(2023)** *Chemistry Select* 8, e202300513.
3. Rakesh Kumar, Neha Yadav, Ankita Leekha, Rashim Bawa, Parveen Gahlyan, **Mamta Bhandari**, Ritu Arora, Anita K. Verma, Rita kakkar, *Chemistry Select* (2021) 6(4): 589-594.
4. Ruchi Jain, Parveen Gahlyan, Sonam Dwivedi, Rituraj Konwar, Sudhir Kumar, **Mamta Bhandari**, Ritu Arora, Rita Kakkar, Rakesh Kumar and Ashok K. Prasad, *Chemistry Select* 3(2018) 5263-5268.

5. Rakesh Kumar, Parveen Gahlyan, Neha Yadav, **Mamta Bhandari**, Rita Kakkar, Manu Dalela, Ashok K. Prasad, *Dyes and Pigments* 147 (2017) 420-428.
6. Rakesh Kumar, Neha Yadav, Rodolfo Lavilla, Daniel Blasi, Jordi Quintana, José Manuel Brea, María Isabel Loza, Jordi Mestres, **Mamta Bhandari**, Ritu Arora, Rita Kakkar, Ashok K. Prasad, *Mol Divers* 2017 (DOI 10.1007/s11030-017-973
7. Neeta Azad, **Mamta Bhandari**, Rita Kakkar, *J Biochem Mol Biol Res* 2016 March 2(1): 67- 72. (ISSN 2313-7177)
8. Ritu Gaba, **Mamta Bhandari**, Rita Kakkar, October 2013, *Advanced Materials Letters*, Vol. 4, Issue 10, Pages 769-778. (ISSN No. 0976-3961)
9. Rita Kakkar, **Mamta Bhandari**, Ritu Gaba, September 2013, *Journal of Theoretical and Computational Chemistry*, Vol. 12, Issue 6. (ISSN No. 1793-6888)
10. Rita Kakkar, **Mamta Bhandari**, September, 2013, *International Journal of Quantum Chemistry*, Vol. 113, Issue 17, Pages 2060-2069. (ISSN No. 1097-461X)
11. Rita Kakkar, **Mamta Bhandari**, Ritu Gaba, April 2012, *Computational and Theoretical Chemistry*, Vol. 986, Pages 14-24. (ISSN No. 2210-271X)

### Book Chapters

1. Rita Kakkar and **Mamta Bhandari**, co-authored a chapter in *Advances in studies on enzyme inhibitors as drugs*. S. P. Gupta (2017) (Ed.) Nova Science Publishers, Inc. Volume 2 ISBN: 978-1-53610-505-6.
2. Himanshu Ojha, **Mamta Sethi**, Rita Kakkar, Malti Sharma, Manisha Saini and Mallika Pathak, co-authored a chapter in 'Cheminformatics and Bioinformatics in Pharmaceutical Sciences', Edited by Navneet Sharma, Himanshu Ojha, Pawan Kumar Raghav and Ramesh K Goyal (2021) Elsevier

### Invited Lectures/Resource Person

- Delivered an invited lecture and took hands-on session on 'Colorimeter and Spectrophotometer: construction & working' in a workshop conducted by ARSD College in July 2022.
- Delivered lecture on the topic "Molecular Spectroscopy" during "DU-Pre NET winter school" conducted by the Department of Chemistry, University of Delhi in December' 2016.

- Resource person for 'UDAAN' programme for Class XI & XII students launched by CBSE under the guidance of Ministry of Human Resource Development, Government of India for 2015-16 & 2016-17.

### **Achievements/Awards/Scholarships**

- **Best oral presentation award** for "Recent Advances in Green Chemistry and Chromatographic Sciences" held during 12-14<sup>th</sup> January, 2012 by ISAS at Manav Rachna University, Faridabad, India.
- Presented paper (Adsorption of Acetaldehyde on TiO<sub>2</sub> nanosurface) at **International Conference on Nanomaterials & Nanotechnology** held by University of Delhi during 18-21 December 2011.
- **Junior Research Fellowship** during Ph.D. sponsored by CSIR (Council of Scientific and Industrial Research, India)
- Gold medalist in graduation (Bhabha Prize awarded for scoring the highest marks in B.Sc. B.Ed. Program).
- Won literary award - "The 7<sup>th</sup> All-India Road Safety Essay Writing Competition conducted by Ministry of Surface Transport, Government of India.
- Won the **Best Outgoing Student** award in graduation (given for excellence in academia and extracurricular activities).

### **Conferences/Workshops/FDPs Organized/attended**

- Organizing Secretary for an International Conference 'International Conference on Recent Trends in Chemical Sciences' was organized on February 14-15, 2023 organized by Miranda House, University of Delhi.
- Member, Organizing Committee for 'International Conference on Contributions of Acharya Parfula Chandra Ray as a Chemist and Freedom Fighter' organized by Vijnana Bharti & Ministry of Culture, Government of India in association with Indraprastha Vigyan Bharti and Department of Chemistry on 02-03 August, 2022.
- Member, organizing committee for online two week Faculty Development Programme 'Life Sciences' from September 1-15, 2021 by Teaching Learning Centre, Ramanujan College, University of Delhi in collaboration of Miranda House, University of Delhi.
- Member, organizing committee for online two week Faculty Development Programme 'Chemistry-The Catalyst for Change' from July 14-28, 2021 by Teaching Learning Centre, Ramanujan College, University of Delhi in collaboration of Miranda House, University of Delhi.

- Member, organizing committee for Online International Conference 'Science and Society' was organized on February 22-25, 2021 organized by IQAC, Miranda House, University of Delhi.
- Member, organizing committee for an International Virtual Conference 'Chemistry - the Catalyst for Change' was organized on February 19-20, 2021 organized by Miranda House, University of Delhi.
- Member, organizing committee for the international webinar on "Empowering Diversity in Science" as part of GWB- IUPAC held on February 12, 2021 organized by Miranda House, University of Delhi.
- Member, organizing committee for the National Workshop Nano Road Show-2020 held on February 2020 organized by Miranda House, University of Delhi in collaboration with IIT Delhi.
- Member, organizing committee for a 'Symposium on Bonding to Create Future Leaders in Sciences'—GWB2020 as part of GWB- IUPAC held on February 12, 2020 organized by Miranda House, University of Delhi.
- Member, organizing committee for the webinar on 'Learnings from Corona Pandemic', The two- day National Webinar, held on 24-25 September 2020 organized by Miranda House, University of Delhi.
- Member, organizing committee for two-week online certificate course "Community Outreach Programme: Together we can" from August 24 – September 5, 2020 organized by Unnat Bharat Abhiyan Cell, Miranda House.
- Conducted "DU-Pre-NET winter school" in the Department of Chemistry, University of Delhi as Deputy Coordinator in December' 2016.
- Workshop on Electronic Structure, Atomistic and Statistical Modeling in Chemistry, Materials and Life Sciences organized by Department of Chemistry, Royal Society of London and Schrödinger GmbH, Bangalore during 8-10 October, 2014.
- International Symposium on "Recent advances in Green Chemistry and Chromatographic Sciences" held during 12-14<sup>th</sup> January, 2012 by ISAS at Manav Rachna University, Faridabad, India.
- International Conference on Nanomaterials & Nanotechnology held by University of Delhi during 18-21 December 2011.
- Workshop on "Computational Chemistry for Chemistry Educators" held by Miranda House, University of Delhi from 23<sup>rd</sup> to 24<sup>th</sup> November 2011.
- National Symposium in Chemistry (NSC-9) organized by Department of Chemistry, University of Delhi.

- Workshop on Green Chemistry Education held in Department of Chemistry, University of Delhi.
- National Seminar on Green Chemistry and Natural products organized by Department of Chemistry, University of Delhi.
- 3<sup>rd</sup> Indo-Italian Workshop on Chemistry and Biology of Antioxidants organized by Department of Chemistry, University of Delhi.
- (ISCBC-2009) 13<sup>th</sup> ISCB International conference on Interplay of Chemical and Biological Sciences: Impact on health and Environment organized by Department of Chemistry, University of Delhi.