

Academic Qualifications

- *Ph.D.* (2009-2013): Indian Institute of Technology Delhi, CGPA: 9.75/10
- *M.Sc. Chemistry* (2007-2009): Indian Institute of Technology Delhi, CGPA: 8.68/10
- *B.Sc. (H) Chemistry* (2004-2007): St. Stephen's College, Delhi University, 87.48% (Topper)

Teaching Experience

- Assistant Professor (*Permanent*) (May 2026-Present): St. Stephen's College, University of Delhi
- Assistant Professor (*Adhoc*) (Aug 2013 – Feb 2023): University of Delhi

Academic Awards and Honors

- Cumulative Impact Factor of 59.7 for publications published in International journals
- Qualified Joint CSIR-UGC examination in chemical sciences and awarded eligibility for Lecturership (NET) in 2009
- Recipient of CSIR Junior (JRF) and Senior (SRF) Research Fellowships
- Life Time Member of Indian Science Congress Association
- 1st rank holder in B.Sc. Chemistry (H) at St. Stephen's College (2004-2007)
- 2nd rank holder in B.Sc. Chemistry (H) at Delhi University (2004-2007)
- Awarded "The Sumitomo – St. Stephen's College Scholarship for Academic Excellence" for all three years from 2004-2007
- Awarded "B.R. Katyal Scholarship" for Best Student in Chemistry Department at St. Stephen's, DU
- Awarded "Science Meritorious Award" from Delhi University for three years (2004-2007)
- 3rd rank holder in M.Sc. Chemistry at IIT Delhi (2007-2009)

Research Publications (*Cumulative Impact Factor: 59.7*)

1. **Aditi Gupta**, Ekta Kundra Arora, Kavya Bhakuni, Ann Riya Selvi, Vibha Sharma, **2026**. Role of Schiff bases and their complexes in Optoelectronic devices: A Review. Asian Journal of Chemistry, 38, 265-277.
2. **Aditi Gupta**, Abhishek Mandal, Tushar K. Dutta, Ashwani Kumar, Supradip Saha, Satyawati Sharma, **2025**. Evaluation of Nematicidal Activity and *In-Silico* Functional Interpretations of *Diploknema*

- butyracea* Saponins against *Meloidogyne incognita*. Journal of Plant Diseases and Protection. Springer, 132, 31, <https://doi.org/10.1007/s41348-024-01016-7> (**Impact Factor 2.1**)
3. Jitendra Kumar Singh, Bhawana Chaurasia, Anamika Dubey, Alexis Manuel Faneite Noguera, **Aditi Gupta**, Richa Kothari, Chandrama Prakash Upadhyaya, Ashwani Kumar, Abeer Hashem, Abdulaziz A. Alqarawi, Elsayed Fathi Abd Allah, **2021**. Biological Characterization and Instrumental Analytical Comparison of Two Biorefining Pretreatments for Water Hyacinth (*Eichhornia crassipes*) Biomass Hydrolysis. Sustainability, 13, 245, 1-16. (**Impact Factor 3.3**)
 4. Abhishek Sharma, **Aditi Gupta**, Manu Dalela, Satyawati Sharma R. Z. Sayyed, Hesham Ali El Enshasy, Elsayed Ahmed Elsayed **2020**. Linking Organic Metabolites as Produced by *Purpureocillium Lilacinum* 6029 Cultured on Karanja Deoiled Cake Medium for the Sustainable Management of Root-Knot Nematodes. Sustainability, 12, 8276. (**Impact Factor 3.3**)
 5. Alakesh Bisai, Vishnumaya Bisai, Saina, Shaheeda MK, **Aditi Gupta**, **2019**. Biosynthetic Relationships and Total Syntheses of Naturally Occurring Benzo[c]phenanthridine Alkaloids. Asian Journal of Organic Chemistry, ISSN: 2193-5815. DOI: <https://doi.org/10.1002/ajoc.201900244>. (**Impact Factor 2.8**)
 6. Vishnumaya Bisai, **Aditi Gupta**, Alakesh Bisai, **2018**. Naturally occurring Taiwanaiquinoids: Biosynthetic relationships and synthetic approaches. Arkivoc, ISSN: 1551-7012, vi, 1-28. (**Impact Factor 0.9**)
 7. **Aditi Gupta**, Abhishek Sharma, Ritika Pathak, Ashwani Kumar, Satyawati Sharma, **2018**. Solid State Fermentation of Non-Edible Oil Seed Cakes for Production of Proteases and Cellulases and Degradation of Anti-Nutritional Factors. Journal of Food Biotechnology Research, 2, 1:4.
 8. **Aditi Gupta**, Satyawati Sharma, Ashwani Kumar, Parvaiz Ahmad, Pravej Alam, **2016**. Enhancing nutritional contents of *Lentinus sajor-caju* using residual biogas slurry waste of detoxified mahua cake mixed with wheat straw. Frontiers in Microbiology, ISSN: 1664-302X, 7, 1529-1541 (**Impact Fact 4.0**)
 9. Ashwani Kumar, Joanna Dames, **Aditi Gupta**, Satyawati Sharma, Jack Gilbert, Parvaiz Ahmad, **2014**. Current developments in arbuscular mycorrhizal (AM) fungal research and its role in salinity stress alleviation: A Biotechnological Perspective. Critical Reviews in Biotechnology, ISSN: 0738-8551, 35 (4), 461-474. (**Impact Factor 9.0**)
 10. **Aditi Gupta**, Ashwani Kumar, Satyawati Sharma, VK Vijay, **2013**. Comparative Evaluation of Raw and Detoxified Mahua seed cake for Biogas production. Applied Energy, ISSN: 0306-2619, 102, 1514-1521. (**Impact Factor 10.1**)
 11. **Aditi Gupta**, Satyawati Sharma, Supradip Saha, Suresh Walia, **2013**. Yield and nutritional content of *Pleurotus sajor caju* on wheat straw supplemented with raw and detoxified mahua cake. Food Chemistry, ISSN: 0308-8146, 141, 4231-4239. (**Impact Factor 8.5**)

12. **Aditi Gupta**, Rohit Chaudhary, Satyawati Sharma, **2012**. Potential Applications of Mahua (*Madhuca indica*) Biomass. Waste and Biomass Valorization, ISSN: 1877-2641, 3, 175– 189. **(Impact Factor 2.6)**
13. Ritu Gothwal, **Aditi Gupta**, Ashwani Kumar, Satyawati Sharma, BJ Alappat, **2012**. Feasibility of dairy waste water (DWW) and distillery spent wash (DSW) effluents in increasing the yield potential of *Pleurotus flabellatus* (PF 1832) and *Pleurotus sajor-caju* (PS 1610) on bagasse. 3 Biotech, ISSN: 2190-572X, 2, 249–257. **(Impact Factor 2.6)**
14. Satyawati Sharma, Abhishek Sharma, **Aditi Gupta**, Shivdhar Mishra, Padma Vasudevan, **2012**. Effect of biofertilizers on fodder crops under rain fed conditions in semiarid area. International Journal of Environmental Sciences, ISSN: 0976 – 4402, 1, 87-96.
15. **Aditi Gupta**, Satyawati Sharma, SN Naik, **2011**. Biopesticidal value of selected essential oils against pathogenic fungus, termites and nematodes. International Biodeterioration and Biodegradation, ISSN: 0964-8305, 65, 703-707. **(Impact Factor 4.1)**

Publications: e-content/MOOC's

1. Content writer and presenter of 6 modules on IR spectroscopy with Educational Multimedia Research Centre, Dr. H.S. Gour Vishwavidyalaya, Sagar, India, for developing 4 quadrant MOOC's of Under graduate level entitled ' Chemistry of d-block Elements, Quantum Chemistry and Spectroscopy' (**2021**).
2. Contributed as **co-author** for developing **MOOC's** and **e-content** for Classical Thermodynamics (11 modules), Adsorption (5 Modules) and Forensic Sciences (3 modules) in the e-PG Pathshala Project (**2017**) under UGC under the NMEICT mission of MHRD, Govt. of India, under the auspices of Centre for e-Learning, SGTB Khalsa College, University of Delhi.
3. Development of **Teacher's e-Kit** (e-content in Four Quadrants) in Chemistry for 'Conductance' at GAD-TLC of MHRD under the PMMMNMTT scheme.

Book Chapters

1. Ashwani Kumar, **Aditi Gupta**, MM Azooz, Satyawati Sharma, Parvaiz Ahmad, Joanna F. Dames, **2013**. Genetic Approaches to Improve Salinity Tolerance in Plants. In: Salt Stress in Plants: Signalling, Omics and Adaptations. Editors: Parvaiz Ahmad, MM Azooz, MNV Prasad. **Springer Publication** New York, ISBN: 978-1-4614-6108-1, 63-78.
2. Parvaiz Ahmed, Ashwani Kumar, **Aditi Gupta**, Xan Hu, KR Hakeem, **2012**. Polyamines: Role in plants under abiotic stress. In: Crop Production for Agriculture Improvement. Editors: Ashraf et al. **Springer Publication**, Netherlands, ISBN: 978-94-007-4116-4, 491-512.

Conferences/Workshops/Seminars

1. **Co-organizer and Anchor** for 'The International Conference on Latest Trends in Health Care: Where Traditions Meet Technology', LTH-2025, St. Stephen's College, September 18-19, 2025.
2. **Co-organizer, Resource Person and Anchor** for 'The workshop on MS Excel and Mental Wellbeing' organized by the Department of Chemistry, St. Stephen's College, 24th - 25th September, 2024.
3. **Co-organizer and Anchor** for 'The International Conference Advances in Pharmaceutical Sciences: Bridging Academia and Industry', St. Stephen's College, March 5-6, 2024'.
4. **Co-organizer and Anchor** for 'The 'National Workshop cum Training Program on Skill Development and Upgradation Workshop for Laboratory Personnel' (SDUWLP-2023) under the aegis of IQAC, St. Stephen's College, August 8-10, 2023.
5. Dr. V. Krishna Moorthy Memmorial Webinar on 'Chemical Entities in Modern Medicine', Department of Chemistry, Sri Venkateswara College, September 15, 2021.
6. Webinar on 'Nanotechnology to combat Climate change for a Clean, Green, Resilient World' Department of Chemistry, Sri Venkateswara College, August 27, 2021.
7. **Oral presentation** at 'Driving Waste Towards Zero: A Holistic Approach for Utilization of Non-edible Oil Seed Cakes, National Seminar on Technology for Environmental Sustainability, Socio-economic Responsibilities and Associated Entrepreneurial Opportunities of 21st Century, Sri Aurobindo College, March 8-9, 2019, 38, Pg. 57.
8. National Workshop on Voice Culture and Voice Modulation', Guru Angad Dev Teaching Learning Centre of MHRD, SGTB Khalsa College, March 7, 2019.
9. National Conference on 'Emerging Trends and Advances in Chemical Sciences', St. Stephen's College, September 25-26, 2018.
10. National Workshop on Molecular Docking, Dynamics & Biologics Discovery', Department of Chemistry, University of Delhi, sponsored by Schrodinger, Bangalore, August 9-10, 2018.
11. National Conference on Scientific Innovation- A Head Start', St. Stephen's College on April 5-6, 2018.
12. 'National Conference on Chemical Science: Opportunities & Challenges', St. Stephen's College, March 19-20, 2018.
13. **Co-organizer, Resource Person and Anchor** for 'The Support Staff Empowerment Workshop (SSEW-2017)' on Basic Computer Skills, St. Stephen's College, November 24, 2017.
14. **Resource Person** at the Support Staff Empowerment Workshop (SSEW-2017) on basic Computer Skills held at St. Stephen's College, DU on November 24, 2017.

15. **Oral presentation** on 'Bioactivity of *Madhca indica* triterpenoids' at Green Chemistry in Environmental Sustainability & Chemical Education (ICGC-2016), Daulat Ram College, November 17-18, 2016, Pg. 34.
16. **Oral presentation** on 'Residual Biogas Slurry for Mushroom Cultivation: A Step towards Solid Waste Management' at 24th European Biomass Conference and Exhibition, Amsterdam, The Netherlands, June 6-9, 2016, 1 BV. 4.84, Pg. 186.
17. **Oral presentation** on 'Waste Management through Solid State Fermentation' at National Seminar on Emerging Economics and Challenges to Sustainability towards Developing Nations, Sri Aurobindo College, March 29-30, 2016, OP 41, Pg. 48.
18. **Invited lecture** on 'Solid Waste Management of Non-edible Oil Cakes: A Holistic Approach' at National Symposium on Horizons of Light in Molecules, Material and Daily Life, held at Department of Chemistry, Dr. H.S. Gour Vishvavidyalaya, Sagar, India, December 18-19, 2015, Pg. 61.
19. **Resource Person** in the In-House Skill Development Course on Green Formulation of Cosmetics and Perfumeries: Daulat Ram College, December 14-15, 2015.
20. **Oral presentation** on 'Extraction of Active Components and Potential Applications of Mahua Seed Cake at 101st Indian Science Congress, Jammu, India, February 3-7, 2014, Section XIV: Plant sciences, Pg. 263.
21. **Oral presentation** on 'An Integrated Approach for *Madhuca indica* (mahua) Seed Cake Utilization' at 28th International Conference on Solid Waste Technology and Management, Philadelphia, USA, March 10-13, 2013, Pg. 3A.
22. **Oral presentation** on 'Potential Applications of Mahua (*Madhuca indica*) Biomass' at Second International Conference on Recycling and Reuse of Materials, Kerela, August 5-7, 2012, Pg. 23.
23. **Oral presentation** on 'Utilization of Non-Traditional Biomass for Biogas Production; at 19th European Biomass Conference and Exhibition, Berlin, Germany, June 6-10, 2011, Pg. 2088-2094.

Technical know-how

MS-Office, AI Tools, BASIC, SPSS software, Sigma Plot, Chem Draw, Chem Sketch, Argus Lab

Instruments/Techniques: HPLC, TLC, Column chromatography, UV-Vis Spectrophotometer, Flame Photometer, Techniques for nutrient and fiber analysis, microbial techniques

Personal Information

Present Address:	New Delhi
Date of Birth	29 th May, 1986
Languages	English, Hindi