

Dr. RAVINDER KUMAR

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Professional/Teaching Experience:

- **Assistant Professor**, Department of Chemistry, Gurukula Kangri University Haridwar- since 2018
- **Assistant Professor**, Ramjas College, University of Delhi, Delhi (2014-2018)
- **Ph.D.** in Chemistry, Department of Chemistry, University of Delhi, Delhi (2010–2014)
- **M.Sc** in Inorganic Chemistry, University of Delhi, Delhi (2007-2009)

International Collaboration

- Honorary Advisor-**BRICS** CCI Energy vertical-from 2022
- International collaboration with Prof. Amit Kumar, School of Hydrology and Water Resources, Nanjing University of Information Science and Technology (**NUIST**), **China** in Water quality, ecological health, and Environmental Pollution and Assessment from January 2021.

AWARDS AND HONORS

- Best Teacher Awards from GK(DU)-2024
- Shodh Ratna Award from GK(DU)-2022
- Extraordinary services award from IIC, GK(DU)-2021
- Teacher Innovation awards by Sri Aurobindo Society (2019)
- National Eligibility Test (NET), CSIR (2010)
- Junior research Fellow (JRF), UGC (2011-2013)
- Senior research Fellow (SRF), UGC (2013-2014)
- 1st Prize in Oral Presentation in ACES-2014

PUBLICATION PROFILE

- Total Publication: **60**
- Total impact factor: **124.6**
- Total citation (as on March 2025): **577**
- *h* Index (as on March, 2025): **15**
- i10-index: 19

RESEARCH INTEREST

Design, Synthesis, Structural, Spectral analysis of transition metal complexes, Catalysis, nanomaterials and their applications in water purification, pesticides removal, dyes degradation etc. and oxidation of organic moieties

Research Project

1. **UCOST Research project 2024-26 (Ongoing):** “Exploration of the removal of pesticides, heavy metals and dyes from contaminated water using nanomaterials and its composite” sanctioned no. UCOST-RND/12/2024-UCOST-DPT-26322 Dated 10.09.2024
2. **UGC-BSR Research project 2021-23 (Completed):** “Selective and efficient removal of toxic heavy metals and organic pollutants by schiff base/chitosan derivatives” sanctioned no. 30-496/2019(BSR)

PUBLICATIONS

1. Shape-Engineered Ag/Ag₂O/CuO Nanostructures for Synergistic Agrochemical Remediation and Microbial Inhibition, M. Kherwal, A. Gupta, **Ravinder Kumar**, V. K. Goel, A. K. Mishra, P. Jhajharia, V. Kumar, **Environ. Sci.: Nano**, 2025, Accepted Manuscript, DOI <https://doi.org/10.1039/D5EN00156K>. ISSN: 2051-8161 (Impact factor: 5.8).
2. Benzimidazole derivatives as potent anti-cancer agents against breast and lung cancer cell line: a review”, Prashant Kaushik, **Ravinder Kumar***, Environmental Engineering and Management, Journal_63_Kaushik_24 (Dec. 2024 Accepted). ISSN: 1843-3707 (Impact factor: 0.9).
3. Synergistic Heterojunction Effects in Ag₃PO₄/SnO₂ Nanocomposites: A Photocatalytic Study on Isoproturon Degradation, R. Ram, B. Verma, S. Kumar, A. Gupta, **Ravinder Kumar***, V. Kumar, Accepted (Manuscript No. 1458965) **Frontiers in Bioengineering and Biotechnology, section Nanobiotechnology Vol. 13, Pg-1458965** ISSN: 2296-4185 (Impact factor: 4.3).
4. Lac-based-biosynthesis of zinc–copper mixed metal oxide nanoparticles and evaluation of their antifungal activity against A.alternata and F. oxysporum, S. Yadav, J. Pathak, P. Majhi, S. Kaushik, A.K. Shukla, R. Kaur, **Ravinder Kumar***, P. Singh, **Materials Chemistry and Physics**, (Jan. 2025), 330, 130152. ISSN: 0254-0584 (Impact factor: 4.3).
5. Ultrasonic-assisted adsorptive uptake of Malachite green dye onto Zn/Cu layered double oxide: Spectrophotometric and smartphone-based detection, B. Pandey, P. Singh,

Ravinder Kumar*, *Applied Organometallic Chemistry*, (Feb. 2025), 39(2), 7981.
<https://doi.org/10.1002/aoc.7981>. ISSN: 1099-0739, (Impact factor: 3.7).

6. Synthesis, characterization, and in vitro anticancer activity of a series of N(4) dimethyl isatin thiosemicarbazones and their copper(II) complexes. Y. R. Pokharel, N. K. Singh, S. Sharma, T. Wangchuk, N. Shahi, K. Mahiya, Ravinder Kumar Choudhary, A. A Kumbhar, P. N. Yadav, **Journal of Molecular Structure**, (April 2025), 1327, 141157. ISSN: 0022-2860, (Impact factor: 4.0)
<https://doi.org/10.1016/j.molstruc.2024.141157>.
7. SnO₂ encapsulated in alginate matrix: Evaluation and optimization of bioinspired nanoadsorbents for azo dye removal; S. J. Borah, Ravinder Kumar*, P. P. Singh, V. Kumar **ChemBioChem**, (Dec. 2024), 25(23), 202400567, DOI: 10.1002/cbic.202400567. ISSN:1439-7633, (Impact factor: 3.3).
8. The Peril of Plastics: Atmospheric Microplastic Transported into Indoor and Remote Environments; S. J. Borah, A. K. Gupta, V. Kumar, P. Jhaharia, P. P. Singh, P. Kumar, Ravinder Kumar, K. Dubey, A. Gupta, **Sustain. Chem.** (May 2024), 5(2), 149-162; <https://doi.org/10.3390/suschem5020011>. ISSN: 2673-4079, (Impact factor: 3.3).
9. Structural and photoluminescence properties of terbium (III) activated Li₂SiO₃ phosphors: an approach for bluish-green light emission; P. Barik, A. K. Verma, **Ravinder Kumar**, V. Kumar, P. Dewangan, M. Sahu, I. P. Sahu, **Applied Physics A** (May 2024) 130:391, ISSN: 1432-0630, (Impact factor: 2.5).
<https://doi.org/10.1007/s00339-024-07525-4>.
10. Harnessing Dual-Functionality of N,F-Codoped SnO₂ Material for Efficient Hydrogen Generation and Dye Degradation, Bhawna, S. Kumar, A. Gupta, V. Kumar, P. Kumar, K. K. Dubey, P. Singh, A. K. Mishra, Ravinder Kumar*, **Journal of Inorganic and Organometallic Polymers and Materials**, (May 2024) 34, 3056–3067 ISSN: 1574-1451, (Impact factor: 3.9). <https://doi.org/10.1007/s10904-024-03074-8>.
11. Tetravalent manganese-doped lithium meta-silicate red-emitting phosphors for LED applications: structural and luminescence properties P. Barik, I. P. Sahu, A. K. Verma, **Ravinder Kumar**, V. Kumar, P. Dewangan, M. Sahu, A. Mehto, **Radiation Effects and Defects in Solids**, (April 2024), 179 (9-10), 1049-1073. ISSN: 1029-4953, (Impact factor: 1.0). DOI: 10.1080/10420150.2024.2332190
12. Recent developments in catalytic and antimicrobial applications of benzimidazole schiff base: A review S. Kumar, P. Kumar Utsuk, **Ravinder Kumar**, P. Tevatia, **Applied Chemical Engineering** (March 2024), 7(2). <https://doi.org/10.59429/ace.v7i2.1860> ISSN: 2578-2010.
13. Harnessing the Waste-to-Wealth Potential of Saraca asoca Plant-Derived Nanoparticles for the Sustainable Removal of Cationic Dyes through Regenerative Adsorption, A. K.

- Gupta, S. J. Borah, A. Gupta, **Ravinder Kumar**, K. K. Dubey, V. Kumar, **Ind. Eng. Chem. Res.** (Oct. 2023), 62, 44, 18312–18324. ISSN: 1520-5045. (Impact factor: 4.326). DOI: [10.1021/acs.iecr.3c02176](https://doi.org/10.1021/acs.iecr.3c02176).
14. Morphology based catalytic oxidation of phenylpropyne into 1,2-diketones, aldehyde and acid using Cu(II) complex, P. Kaushik, N. Malik, P. Tevatia, V. Kumar, P. K. Sahu, **Ravinder Kumar**, **Applied Chemical Engineering** (Nov. 2023), 6(3). doi: 10.24294/ace.v6i3.2009. ISSN: 2578-2010.
 15. Investigating Adsorption Behaviour of Cobalt Vanadate Nanocomposites on Methylene Blue Dye, Monika, V. Kumar, P. Kumar, **Ravinder Kumar**, V. K. Goel, V. Kumar, **Indian Journal of Pure & Applied Physics** (Sept. 2023) 61, 774-777 DOI: 10.56042/ijpapv61i9.3521. ISSN: 0975-1041, (Impact factor: 0.846)
 16. Structural and photoluminescence properties of europium (III)-activated lithium meta-silicate phosphors for solid-state lighting, P. Barik, A. Verma, **Ravinder Kumar**, V. Kumar, I. P. Sahu, **Applied Physics A** (Aug. 2023) 129:677, 1-13 <https://doi.org/10.1007/s00339-023-06961-y>. ISSN: 1432-0630, (Impact factor: 2.5)
 17. Grasping the Supremacy of Microplastic in the Environment to Understand its Implications and Eradication: A Review, S. J. Borah, A. K. Gupta, A. Gupta, Bhawna, S. Kumar, R. Sharma, Ravinder Kumar, P. Kumar, K. K. Dubey, S. Kaushik, A. K. Mishra, V. Kumar **Journal of Materials Science** (Aug. 2023) 58, 12899–12928 DOI: 10.1007/s10853-023-08806-8. ISSN: 1573-4803. (impact factor: 4.682).
 18. Various approaches for the synthesis of benzimidazole derivatives and their catalytic application for organic transformation, P. Kaushik, B. S. Rawat, **Ravinder Kumar**, **Applied Chemical Engineering** (August 2023) 6(2) doi: [10.24294/ace.v6i2.2003](https://doi.org/10.24294/ace.v6i2.2003) ISSN: 2578-2010.
 19. Catalytic heterostructured materials: Open scopes from renewable energy to climate neutral society for CO₂ mitigation and conversion into fuels, B. Verma S. Kumar, R. Sharma, S. J. Borah, A. Gupta, M. K. Gupta, **Ravinder Kumar**, K. K. Dubey, Y. K. Mishra, V. Kumar, **Sustainable Energy and Fuels**, (July 2023), 7(18), 4354-4395 DOI <https://doi.org/10.1039/D3SE00516J>. ISSN: 2398-4902 (impact factor: 6.813)
 20. Exploring the paradigm of phyto-nanofabricated metal oxide nanoparticles: Recent advancements, applications, and challenges, J. Pathak, B. Pandey, P. Singh, **Ravinder Kumar**, S. Kaushik, I. P. Sahu, T. K. Thakur, A. Kumar, **Molecular Biotechnology**, (July 2023), DOI: [10.1007/s12033-023-00799-8](https://doi.org/10.1007/s12033-023-00799-8) ISSN: 1559-0305 (Impact factor: 2.7).
 21. Emerging Trends in Nano-Based Antidiabetic Therapeutics: A Path to Effective Diabetes Management, R. Sharma, S. J. Borah, B. Verma, S. Kumar, A. Gupta, V. Kumari, **Ravinder Kumar***, K. K. Dubey, V. Kumar, **Materials Advances** (Jan 2023) 4(41), 3091-3113, ISSN: 2633-5409 (Impact factor: 5.36).
 22. Unlocking the Potential of N-Doped SnO₂ for Sustainable Photocatalytic Degradation of Carcinogenic Dyes, Bhawna, R. Sharma, S. Kumar, **Ravinder Kumar**, P. K. Sahu, V.

- Kumari, A. K. Mishra, V. Kumar, **Separations** (May 2023), 10(6), 322, ISSN: 2297-8739 (Impact factor: 3.344).
23. Organic sensing element approach in electrochemical sensor for automated and accurate pesticides detection, S. Bano, P. K. Sahu, V. Kumar, V. Kumari, A. Gupta, R. Kant, **Ravinder Kumar***, **Applied Chemical Engineering** (May 2023), 6(1), 48-58. ISSN: 2578-2010.
 24. New Insights into Cu/Cu₂O/CuO Nanocomposite Heterojunction Facilitating Photocatalytic Generation of Green Fuel and Detoxification of Organic Pollutants, S. Kumar, Bhawna, A. Gupta, **Ravinder Kumar**, A. Bharti, A. Kumar, V. Kumar, **Journal of Physical Chemistry C** (April 2023), 127(15), 7095–7106 (Impact factor: 4.177). ISSN: 1932-7455
 25. Interacting with Futuristic Topological Quantum Materials: A Potential Candidate for Spintronics Devices, P. Kumar, R. Kumar, S. Kumar, M. K. Khanna, **Ravinder Kumar**, V. Kumar, and A. Gupta, **Magnetochemistry**, (March 2023), 9(3), 73. ISSN: 2312-7481 (Impact factor: 3.336).
 26. Microplastics in the Ecosystem: An Overview on Detection, Removal, Toxicity Assessment, and Control Release, B. Pandey, J. Pathak, P. Singh, **Ravinder Kumar**, A. Kumar, S. Kaushik and T. K. Thakur, **Water** (Jan 2023) 15(1), 51. ISSN: 2073-4441 (Impact factor: 3.530).
 27. Functionalized Peptide-Based Nanoparticles for Targeted Cancer Nanotherapeutics: A State-of-the-Art Review, R. Sharma, S. J. Borah, Bhawna, S. Kumar, A. Gupta, P. Singh, V. K. Goel, **Ravinder Kumar** and Vinod Kumar, **ACS Omega** (Oct. 2022), 7(41): 36092-36107, ISSN: 2470-1343 (Impact factor: 4.132).
 28. TiO₂ based Photocatalysis membranes: An efficient strategy for pharmaceutical mineralization, S. Kumar, Bhawna, R. Sharma, A. Gupta, K. Kumar Dubey, A.M. Khan, R. Singhal, **Ravinder Kumar**, A. Bharti, P. Singh, R. Kant, V. Kumar, **Science of the Total Environment** (Nov. 2022) 845, 157221, ISSN: 0048-9697 (Impact Factor: 10.753).
 29. Exploration of anticancer potency of N(4)-thiomorpholinyl isatin/haloisatin thiosemicarbazones on coordination to Cu²⁺ ion, N. K. Singh, S. Sharma, A. K. kumar, **Ravinder Kumar** Choudhary, A. A Kumbhar, R. J Butcher, Y. Raj Pokharel, P. N. Yadav, **Inorganic Chemistry Communications** (Sept. 2022) 143, 109767-70, ISSN: 1387-7003 (Impact Factor: 3.8)
 30. B-doped SnO₂ nanoparticles: a new insight into the photocatalytic hydrogen generation by water splitting and degradation of dyes, S. Kumar, Bhawna, S. K. Yadav, A. Gupta, **Ravinder Kumar**, J. Ahmed, M. Chaudhary, Suhas, V. Kumar, **Environ Sci Pollut Res Int.** (Feb. 2022) 29, 47448–47461, ISSN: 1614-7499 (Impact Factor: 5.190).
 31. Assessment of the bioaccumulation pattern of Pd, Cd, Cr and Hg in edible fishes of East Kolkata Wetlands, India, J. Dutta, S. Zaman, T. K. Thakur, S. Kaushik, A. Mitra, P. Singh, **Ravinder Kumar**, A. T. K Zuan, M. S. Samdani, S. A. Alharbi, R. Datta, **Saudi**

- Journal of Biological Sciences*, (Feb. 2022), Vol. 29(2), 758–766, ISSN: 1319-562X. (Impact Factor: 4.052)
32. Anticancer potential of N(4)substituted 5- nitroisatin thiosemicarbazones and their copper(ii) complexes., N. K. Singh, S. Shrestha, N. Shahi, **Ravinder Kumar** Choudhary, A. A Kumbhar, Y. R. Pokharel, P. N. Yadav, **Rasayan J. Chem.** (July 2021), 14 (3), 1600-1610, ISSN: 0976-0083
 33. Enhancement of Anticancer Activity of N(4)1-(2-Pyridyl)piperazinyl 5-Nitroisatin Thiosemicarbazone on Chelation with Copper(II), N. K. Singh, S. Shrestha, N. Shahi, **Ravinder Kumar** Choudhary, A. Kumbhar, Y. R. Pokharel, P. N. Yadav, **Asian Journal of Chemistry** (Feb. 2021), Vol. 33, No. 3, 557-564, ISSN: 0975-427X
 34. DFT and docking studies of designed conjugates of noscapines & repurposing drugs: promising inhibitors of main protease of SARS-CoV-2 and falcipain-2, A. Kumar, D. Kumar, **Ravinder Kumar**, P. Singh, R. Chandra, K. Kumari, **Journal of Biomolecular Structure and Dynamics** (03 Nov. 2020), Vol. 40 (No. 6), 2600-2620, ISSN: 1538-0254 (Impact Factor: 3.392)
 35. An Update on COVID-19: Role of Nanotechnology in Vaccine Development, Ritika Sharma, Akanksha Gupta, **Ravinder Kumar**, Prashant Singh, Vinod Kumar, **SMC Bulletin** (August 2020) Vol. 11 (No. 2), 88-96, ISSN 2394-5087
 36. Facile Synthesis of N-Doped SnO₂ Nanoparticles: A Cocatalyst-Free Promising Photocatalyst for Hydrogen Generation. Bhawna, A. Gupta, P. Kumar, A. Tyagi, **Ravinder Kumar**, A. Kumar, P. Singh, R. P. Singh, V. Kumar, **ChemistrySelect**, (July 2020), 5(26), 7775–7782 (Impact Factor: 2.302), ISSN: 2365-6549
 37. COVID-19: Emergence of Infectious Diseases, Nanotechnology Aspects, Challenges, and Future Perspectives. A. Gupta, S. Kumar, **Ravinder Kumar**, A. K. Choudhary, K. Kumari, P. Singh, V. Kumar, **ChemistrySelect** (July 2020) 5(25), 7521–7533 (Impact Factor: 2.302) ISSN: 2365-6549
 38. Copper(II) complexes with Box or Flower type Morphology: Sustainability versus Perishability upon catalytic recycling. **Ravinder Kumar**, A. Yadav, K. Mahiya, Pavan Mathur, **Inorganica Chimica Acta**, (2016), 450, 279-284. (Impact Factor: 3.118), ISSN: 0020-1693.
 39. Synthesis of diaryl disulfides, sulfides and aryl alkyl sulfides from isothiazolones, B. S. Bhakuni, **Ravinder Kumar**, P.S. Bhakuni, **Chemical Science Transactions** (2016) 5(2), 321-324 (Real time impact Factor: 0.761), ISSN: 2278-3318.
 40. Oxidation of phenyl propyne catalyzed by Copper(II) complexes of a benzimidazolyl schiff base ligand: Effect of acid/base, Oxidant, Surfactant and Morphology. **Ravinder Kumar**, Pavan Mathur, **Spectrochimica Chimica Acta Part A: Molecular and Biomolecular Spectroscopy**. (2015) 136, 818-823. (Impact Factor: 4.831), ISSN: 1386-1425.
 41. Oxidation of substituted benzyl amines using a phenoxo bridged dinuclear nickel(II) complex: Synthesis, Structure and catalytic activity R. Kumar, **Ravinder Kumar**, K.

- Mahiya, Pavan Mathur, *Transition Metal Chemistry* (2015) 40 (2), 189-195. (Impact Factor: 2.266), ISSN: 0340-4285.
42. Aerobic Oxidation of 1,10-Phenanthroline to Phen-dione Catalyzed by Copper(II) Complexes of a Benzimidazolyl Schiff Base. **Ravinder Kumar**, Pavan Mathur, *RSC Advances*, (2014) 4 (63), 33190-33193. (Impact Factor: 4.036), ISSN: 2046-2069.
 43. Oxidation of substituted phenols using copper(II) metallatriangles formed through ligand sharing. K. Mahiya, **Ravinder Kumar**, F. Lloret, Pavan Mathur, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, (2014) 133, 663–668. (Impact Factor: 4.831), ISSN: 1386-1425.
 44. Review on synthesis and application of schiff base and its transition metal complexes. **Ravinder Kumar**, Ravikant, *Research Journal of Chemical and Environmental Sciences* (2014) 2(1). (Real time impact Factor: 0.564), ISSN: 2321-1040.
 45. Dimeric copper(II) complex of a new schiff base ligand: Effect of morphology on the catalytic oxidation of aromatic alcohol. **Ravinder Kumar**, K. Mahiya, Pavan Mathur, *Dalton Transaction*, (2013) 42, 8553-8557. (Impact Factor: 4.569), ISSN: 1477-9226.
 46. Copper(II) Complexes of new tetra-dentate bis-benzimidazolyl Diamide Ligands: Synthesis, Structural and Oxidation of some pyridyl, naphthyl and benzyl alcohols. N. Tyagi, **Ravinder Kumar**, K. Mahiya, Pavan Mathur, *Journal of Coordination Chemistry*, (2013) 66, 19, 3335-3348. (Impact Factor: 1.751), ISSN: 1029-0389.
 47. Bis-benzimidazole diamide iron(III) complexes as mimics of phenoxazinone synthase. R. Bhakshi, **Ravinder Kumar**, Pavan Mathur, *Catalysis Communication*, (2012) 17, 140-145. (Impact Factor: 3.626), ISSN: 1566-7367.
 48. Oxidation of olefins catalyzed by Iron (III) complexes of bis-benzimidazolyl diamide ligands. G. Ahuja, **Ravinder Kumar**, Pavan Mathur, *Journal of Molecular Structure*, (2012) 1011, 166-171. (Impact Factor: 3.841), ISSN: 0022-2860.
 49. Oxidation of substituted alkyne's catalyzed by a non-heme iron(III) Bis benzimidazole diamide complex as catalyst under ambient condition, R. Bhakshi, **Ravinder Kumar**, Pavan Mathur, *Indian journal of Chemistry Section-A*, (2011) Vol.50A, 658-663. (Impact Factor: 0.729), ISSN: 0019-5103

Book Chapter

1. Metal organic framework based mixed matrix membranes and their application in separation processes, Gunjan Rajput, Bhavesh Parmar, Abhishek Dadhania, Vera Isaeva, Ravinder Kumar, Kamal Kumar Bisht, *Advances in Separation Sciences* (Elsevier) (Jan 2025), 265-280, <https://doi.org/10.1016/B978-0-323-95292-7.00006-2>, ISBN 978-0-323-95292-7.
2. Exploring the Core Aspects of Microplastic Pollution: Origin, Distribution, Imprint, Detection, and Policy Solutions, Shikha Jyoti Borah, Abhijeet Kumar Gupta, Vinod Kumar, Akanksha Gupta, Ravi Kant & **Ravinder Kumar*** (Sept. 2024) 189-205

Springer Nature Singapore. eBook ISBN 978-981-97-6461-7. Microplastics: Environmental Pollution and Degradation Process. https://doi.org/10.1007/978-981-97-6461-7_9.

3. Chemical Management of Industrial Hazardous and Non-hazardous Waste, Samiksha, KK Bisht, A Gupta, R Kant, **Ravinder Kumar***, Integrated Waste Management: A Sustainable Approach from Waste to Wealth (April 2024) 119-139, **Springer Nature Singapore. eBook ISBN 978-981-97-0823-9** https://doi.org/10.1007/978-981-97-0823-9_6.
4. Municipal Solid Waste and Climate Change J Pathak, **Ravinder Kumar***, P Singh Integrated Waste Management: A Sustainable Approach from Waste to Wealth, (April 2024) 207-221. **Springer Nature Singapore. eBook ISBN 978-981-97-0823-9** https://doi.org/10.1007/978-981-97-0823-9_10.
5. Agriculture Waste to Wealth: Unlocking the Hidden Potential, N Sahu, S Shweta, P Garg, E Berry, **Ravinder Kumar**, S Kaushik, Integrated Waste Management: A Sustainable Approach from Waste to Wealth, (April 2024) 63-89, **Springer Nature Singapore. eBook ISBN 978-981-97-0823-9** https://doi.org/10.1007/978-981-97-0823-9_4.
6. Recent Trends and Strategies in Waste Management: A Comprehensive Analysis of India's Waste Scenario K. Singh, V. Kumari, **Ravinder Kumar**, A. Gupta Integrated Waste Management: A Sustainable Approach from Waste to Wealth, (April 2024) 13-35. **Springer Nature Singapore. eBook ISBN 978-981-97-0823-9** https://doi.org/10.1007/978-981-97-0823-9_2.
7. Development of Technologies for Municipal Solid Waste Management: Current Status, Challenges, and Future Perspectives, R. Devi, A. K. Singh, A. Kumar, **Ravinder Kumar**, S. Rani, R. Chandra (April 2024), Integrated Waste Management: A Sustainable Approach from Waste to Wealth, Pages 37-62 **Springer Nature Singapore. eBook ISBN 978-981-97-0823-9.** https://doi.org/10.1007/978-981-97-0823-9_3.
8. Nano-sorbents: A promising alternative for the remediation of noxious pollutants, Suhas, M. Chaudhary, I. Tyagi, **Ravinder Kumar**, V. Kumar, S. Chaudhary, S. Kushwaha, **Sustainable Materials for Sensing and Remediation of Noxious Pollutants** (Aug. 2022), Pages 113-128. <https://doi.org/10.1016/B978-0-323-99425-5.00013-X>, ISBN: 978-0-323-99425-5, Publisher: Candice Janco.
9. Study on Enhancement of Anticancer Activity of N(4)1-(2-Pyridyl)piperaziny 5-Nitroisatin Thiosemicarbazone on Chelation with Copper(II), N. K. Singh S. Shrestha N. S. **Ravinder Kumar** Choudhary A. A. Kumbhar Y. R. Pokharel P. Nath Yadav,

Challenges and Advances in Chemical Science (April 2022) Vol. 9, chapter 5, 9, Page 40-55, <https://doi.org/10.9734/bpi/cacs/v9/1762A>, Print ISBN: 978-93-5547-364-6, eBook ISBN: 978-93-5547-372-1. Publisher: BP International

Books

- **Integrated Waste Management: A Sustainable Approach from Waste to Wealth:** A. Gupta, **Ravinder Kumar**, V. Kumar, (April 2024) DOI: <https://doi.org/10.1007/978-981-97-0823-9>. eBook ISBN 978-981-97-0823-9. **Springer Nature** Singapore Pte Ltd. 2024
- **P. Mathur, Ravinder Kumar “Practical Chemistry for Undergraduates” 2016**, ISARA Publications, New Delhi, ISBN: 978-81-933046-6-2

SKILL ACQUIRED

- Synthesis of various metal complexes and nanomaterials using several synthetic routes
- Familiar with UV-visible, FT- IR, NMR, EPR Spectroscopy, PXRD, SC-XRD, GC-MS, SEM etc.
- Experienced in Microsoft® Office (Excel, Power Point, Word, Office Picture Manager), Paint, Origin 8.0, Adobe Photoshop

ACADEMIC EXPERIENCES AND ASSIGNMENTS

- **P.G. Dissertation:** 01 (2022-23): “Design, synthesis and characterization a new biopolymer chitosan Schiff base” by Shubham Kashyap
- **Supervision** of M.Sc Project: **32**
- **Guest Editor** in Special issue on Emerging Materials for Sustainable Energy, Environment and Health in **Applied Chemical Engineering**
- Served as the Reviewer/Referee for (i) **Catalysis Letters** (ii) **Journal of Nanoscience and Nanotechnology** (American Scientific Publishers), **Current Nanoscience (Bentham)**, **International Journal of River Basin Management** (Taylor and Francis), **International Journal of Nanoscience and Nanotechnology (IOP PUBLISHING LTD)** and many more
- **Invitation from CSTT, MHRD**, Department of higher education to attend the seminar on “Applications of graph & network in computational studies bioinformatics, Engg. And its technical terminology” Organized by CSIS held in JNU from 12-14 March 2018.
- **Invitation from CSTT, MHRD**, Department of higher education to attend the seminar on “Recent Trends in Technical Terminology in Science” organized by Department of Chemistry, Sri Aurbindo College, University of Delhi, Delhi on 16-17th Feb. 2016.

- Served in the **Question Paper Setting/Evaluation Committee** for the various university and other national level examination.
- **Appointed as External/Internal Examiner** to conduct practical examination for B.Sc & M.Sc in various University & colleges.
- **University Representative** to conduct the under Graduate courses (SOL) examination in 2016.

ADMINISTRATIVE EXPERIENCES AND ASSIGNMENTS

- **Deputy Dean, DSW, GK(DU)** from Oct. 2024
- **Convener:** “आर्ष भारत पुनर्जागरण के नायक: महर्षि दयानंद सरस्वती एवं वैदिक विज्ञान” on 25-26 Sept. 2024
- **Nodal officer:** Yuvamanthan experimental Learning Event, UGC, GK(DU) Nov. 2023
- **Convener:** Bhartiya Bhasha Sammelan March 2024
- **Convener:** Product Development, Monitoring & Commercialization, R&D Cell, GK(DU) from June 2022
- **Co-coordinator** Internship: Institution’s Innovation council (IIC), GK(DU) 2020-21, 2021-22, 2023-24
- **Team Manager:** University Basketball Team Visit to JMI, New Delhi in North Zone competition (Dec.2022)
- **Chairman:** University Judo team selection Committee, GK(DU)-Dec. 2021
- **IQAC Criteria-5 Incharge,** Department of Chemistry, GK(DU) 2023-24
- **Convener:** Student Counselling Committee (Garbhastra Chhatra Parmpara)-2019-20,21,22,23
- **IQAC** (Department Representative): Department of Chemistry, GK(DU) from April 2022 to till date
- **Member:** DSIR-DST Committee, GK(DU) -2023
- **Member:** University shooting selection committee GK(DU) –Nov. 2023
- **Member:** NIRF Committee GK (DU) 2023-34
- **Member:** University Proctorial Board, GK(DU) 2022-23, 2023-24
- **Member:** Scholarship Committee for Gen/SC/ST for Uttarakhand state, GK(DU)- 2022
- **Member:** Indian Knowledge Centre (IKS) GK(DU) 2022-23
- **Member:** Ek Bharat Shreshtha Bharat Mission GK(DU) 2022-23
- **Member:** Scholarship Committee for Gen/SC/ST/OBC for Uttarakhand state, GK(DU)-2022-23
- **Member:** NEP 2020 for modification in B.Sc syllabus, GK(DU)-2022
- **Member:** NIRF Committee GK (DU) 2021-22

- **Member:** University Proctorial Board, GK(DU) 2021-22
- **Convener:** Chemistry Department Alumni committee 2020-21, 2021-22, 22-23
- **Member:** Department Research Committee, GK(DU) from July 2019 to till date
- **IQAC Member:** Department of Chemistry, GK(DU) from Feb 2020 to till date
- **Member:** Academic Audit, GK(DU) 2020-21
- **Member:** Audit Team, Science Faculty, GK(DU) 2021-22
- **Member:** University Green Audit Committee, GK(DU) -2019-20, 2020-21, 2021-22
- **Member:** M.Sc, B.Sc Admission Committee, GK(DU) - 2019-20, 2020-21, 2021-22, 2022-23
- **Member:** University squash team selection committee GK(DU) -2020
- **Member:** University Athletics team selection committee GK(DU)-2019
- **Member:** University squash team selection committee GK(DU)-2019
- **Member:** Scholarship Committee for Gen/SC/ST for Uttar Pradesh state, GK(DU)- 2019
- **Member:** University Badminton team selection committee, GK(DU)- Sept. 2019
- **Member:** Solar Cell Committee, GK(DU) -2019
- **Member:** DSIR-DST Committee, GK(DU) -2019
- **Member:** Water Coolers Committee, GK(DU)-2019
- **Member:** Punya Bhumi Committee on Foundation Day Celebration, GK(DU)-2019
- **NTA & CBT Observer** in UGC-NET, NEET(UG) and CTET Examination

MEMBERSHIP (04)

- Life Time Membership of “**The Indian Science Congress Association, Kolkata** (Membership No. **L39555**)
- Life Time Membership of “**The Indian Science Congress Association: Haridwar Chapter**” (Membership No. **L0159**)
- Life Time Membership of “**Indian Society of Analytical Scientists: Delhi Chapter**” (Membership No. **LMT-2018/023**)
- Life Time Membership of **United Professionals & Scholars for Action (UPSA)**. (Membership No. **UPSA/A1/19/224**)

Conference Organized/ Advisory Committee

- **Organizing Member:** Induction Program organized by Department of Chemistry, GK(DU) August 2023
- **Executive Organizing Member:** “**National Conference on “Government Educational Institutions: Current Scenario and Challenges”** organized by Guhar in collaboration with Digambar Jain College (Affiliated to C.C.S University, Meerut, U.P) on March 24-25, 2020.

- **Organizing Member:** Research Methodology, Publication and Ethics (RMPE-2022) organized by Department of physics & IQAC, GK (DU), Haridwar in collaboration with USERC from 25-30 March 2022.
- **Organizing Member:** “International Conference on advances in chemical sciences and nanocomposites” organized by ZHC, University of Delhi and ISAS Delhi Chapter from 1-2 April 2022
- **Organizing Member:** Induction Program organized by faculty of Science, GK(DU) on 22 Dec. 2021
- **Organizing Member:** 1st National Conference on Emerging trends & future challenges in chemical sciences (ETFC-2016), organized by Kirori Mal College, University of Delhi. Delhi on 03-04 Feb. 2016.
- **International Scientific advisory committee Member:** “International Webinar on “Drug Discovery-2021 (IWDD-2021)” Organised by Department of chemistry, ARSD College, University of Delhi, Delhi on 20 July 2021
- **National Scientific advisory committee Member:** “2nd National Conference on Emerging trends & future challenges in chemical sciences (ETFC-2020)” organized by Department of Chemistry, Kirori Mal College, University of Delhi from 10-11th Jan 2020

FACULTY DEVELOPMENT PROGRAMME

1. **Refresher Course** in Physical Sciences & Nano Sciences Online from HRDC, JNU, New Delhi from 11-23 July 2022
2. **National Workshop** on Research Methodology, Publication and Ethics (RMPE-2022) organized by Department of physics & IQAC, GK (DU), Haridwar in collaboration with USERC from 25-30 March 2022
3. **Faculty Development Programme** on “Geo-Spatial technology, Inclusive and Accessible Disaster Risk Reduction (DRR)” organized online by National Institute of Disaster Management, Govt. of India and Shyama Prasad Mukherji College for women from 04-06 March, 2021.
4. **Refresher Course** in Chemistry for Higher Education Online from SWAYAM ARPIT, MHRD, Govt. of India-2020.
5. **Faculty Development Programme** on Energy Conservation & Renewable energy organized by School of Engineering and technology, IGNOU, New Delhi from 08-12 June, 2020.
6. **Faculty Development Programme** on Multidisciplinary approach towards Emerging trends in Science & Humanities (MASH-2020) organized by Ramachandra College of Engineering, Eluru from 01-05 June, 2020.

7. **Orientation Programme** from 01-24, August 2019 at the UGC-Human Resource Development Centre, Kumaun University, Nainital
8. Participated in QIP short term course on “**Functional Materials: Recent Trends and Future Prospects**” Organized by Department of Chemistry, Indian Institute of Technology, Roorkee (Uttarakhand) from 20-24, May 2019 (One Week).
9. Faculty Development Program (FDP) cum workshop on “**Climate Across the Curriculum: Resources for Integrating Climate Topics in Discipline-Specific Teaching**” Organized by IQAC, Sri Venkateswara College, University of Delhi in Collaboration with TROPICSU, a Climate Education Project funded by International Council for Science (ICSU) & IISER, Pune, India on 13-14th Oct. 2018.
10. FDP on “**E-contact development methodology: four quadrant model, OERs, copyright issues**” organized by Guru angad dev teaching learning centre SGTB khalsa college, University of Delhi and PMMMNMTT, New Delhi on 15 May 2020.

SESSION CHAIR (05)

1. Session chair in “**National Conference on Health and hygiene-2025**” organized by the Department of Botany and Microbiology, Gurukula Kangri University, Haridwar India held on 13-14th Feb., 2025.
2. Session chair in “**1st International Conference on Advanced Developments in Chemistry and Allied Sciences-2021 (ADCAS-21)**” organized by the Department of Chemistry, Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Haryana, India held on 16-17th December, 2021.
3. Session chair in “**Innovation in teaching in government school during COVID-19**” organized online by GUHAR on 07th June 2020.
4. Session chair in “**International Institute of Engineers and Researchers (IIER) Conference-Meetings**” held in Zurich, Switzerland from 16-17th November 2019.
5. Session chair in seminar entitled “**Discussion: The level of education in Government Schools**” held in V.P.O Luhari, Bhagpat, Uttar Pradesh organized by GUHAR on 02nd October 2019.

RESOURCE PERSON/INVITED SPEAKER

1. Resource person and delivered an invited talk entitled “Patents, Copyright and Trademarks in current scenario” in “**UCOST sponsored IPR workshop on role of IPR in Entrepreneurship and Academic Research**” organized by HNB Garhwal University, Srinagar (Uttarakhand) on 07th Feb., 2025.
2. Resource person and delivered an invited talk entitled “**The Himalaya in the 21st Century–Chemistry and Environment**” in “**HIMALYA DIWAS SAMAGAM**” on organized by Dolphin PG Institute of Biomedical and Natural Sciences, Dehradun, Uttarakhand on 09th Sept. 2024

3. Keynote Speaker entitled **“Empowering Youth through Incubators & Start -up”** in **“Accelerators/Incubation - Opportunities for Students & Faculties – Early-Stage Entrepreneurs”** organized by HNB Garhwal University, Srinagar (Uttarakhand) on 16th august 2024
4. Resource person and delivered an invited talk entitled **“Instrumentation and application of Cyclic Voltammetry”** in **“One-Week Hands-on-Training Programme on “Analytical Instrumentation Techniques for Applied Research”** under **“KARYASHALA”** Scheme of SERB, DST, Govt. of Delhi, on organized by HNB Garhwal University, Srinagar (Uttarakhand) on 22nd May 2024.
5. Resource person and delivered an invited talk entitled **“Patents, Copyright and Trademarks”** in **“National Workshop on Intellectual Property Rights, Literature Search and Research Ethics in Pharmaceutical and Allied Sciences.”** organized by HNB Garhwal University, Srinagar (Uttarakhand) on 23rd Feb., 2024.
6. Resource person and delivered an invited talk entitled **“Science around you”** in **“Sanjeevani”** organized by USERC, Dehradun and supported by Vibha, at Srikot, Srinagar (Uttarakhand) on 24 February, 2024
7. Resource person in **India International Science Festival (IISF-2024)** organized by the Ministry of Science & Technology, Ministry of Earth Sciences, Department of Space, Department of Atomic Energy, Government of Haryana, in collaboration with Vijnana Bharati at DBT THSTI-RCB Campus, Faridabad, Haryana on January 17-20th, 2024.
8. Resource person and delivered an invited talk entitled **“Waste to Wealth for environmental remediation”** in **“Sanjeevani: A Health Awareness outreach cum workshop”** organized by HNB Garhwal University, Srinagar (Uttarakhand) on Sept. 21-23, 2023.
9. Resource person and **“External member of evaluation team”** in **“Science Festival”** organized by HNB Garhwal University, Srinagar (Uttarakhand) on 04th March 2023.
10. Resource person and delivered an invited talk entitled **“Chemistry in daily life”** in **“Science Festival”** organized by HNB Garhwal University, Srinagar (Uttarakhand) on 03rd March 2023.
11. Resource person to be a Jury member in the **India International Science Festival (IISF-2023)** Young Scientist Conference to be held during at MANIT, Bhopal on 22-24 January 2023.
12. Research person in **“Faculty Enrichment Webinar for Chemistry teachers in higher Education”** organized by National Resource Center for education on Feb 11, 2021 at NIEPA, New Delhi.
13. Research person in **“Virtual workshop on collating chemistry resources for teachers in higher education”** organized by National Resource Center for education on June 18-19, 2020 at NIEPA, New Delhi.

14. Research person in ***“Current Socio-Economic Challenges & Opportunities (COVID-19)”*** organized by GUHAR online on 3rd May 2020.
15. Research person and delivered a talk entitled ***“ICT: The Emerging learning technology during COVID-19”*** in *National webinar* on “Current Socio-Economic Challenges & Opportunities (COVID-19)” organized by GUHAR online on 16th May 2020.
16. Resource person and delivered an invited talk entitled ***“Bio-Mass Energy: its energy Everywhere”*** in ***National Conference on Replacement of petrochemicals by Bio-based chemicals for safe environment”*** organized by ***C.C.R (P.G) College, Muzaffarnagar (U.P)*** on 18th February 2020.
17. Resource person and delivered an invited talk entitled ***“Nature, Science and Daily Life”*** in ***“DST-Inspire Internship Science Camp, an initiative of DST, Govt. of India”*** organized by ***HNB Garhwal University, Srinagar*** (Uttarakhand) on 30th January 2020.
18. Research person and delivered a talk entitled ***“Smart Composite Materials for Environmental Sustainability”*** under ***“Nepal Physical Society”*** at ***Patan Multiple Campus, Patandhoka, Lalitpur (Science Building), Tribhuvan University, Kathmandu, Nepal”*** on 7th January 2020.
19. Research person and delivered a talk entitled ***“Complex Chemical pathway of copper(II) complexes”*** in ***“Central Department of Chemistry, Tribhuvan University, Kirtipur, Kathmandu, Nepal”*** on 8th January 2020.
20. Keynote speaker in ***“International Conference on Natural Science and Environment-2019 (ICNSE)”*** organized by the International Institute of Engineers and Researchers (IIER) held in Zurich, Switzerland from 16-17th November 2019.
21. Research person and delivered a talk entitled ***“Energy Storage Materials”*** in ***“Workshop on Conservation of Renewable energy sources for sustainable development”*** organized by Govt. P.G. College, New Tehri, Uttarakhand on 2nd December 2019.
22. Research person and delivered a talk entitled ***“Patents in Research”*** in ***“Workshop on Awareness on Intellectual Property Rights”*** organized by Govt. P.G. College, New Tehri, Uttarakhand on 03rd December 2019.
23. Resource person in ***“DST-Inspire Internship Science Camp, an initiative of DST, Govt. of India”*** organized by Indira Gandhi National Tribal University, Amarkantak, M.P on 6-10th July 2018.
24. Resource person in ***“Delhi University Pre-Entrance Summer School-2018”*** Organized by Institute of Lifelong Learning, University of Delhi from 01-16th June, 2018.
25. Resource person in ***“Workshop on Iodimetric Estimation of Arsenic in given water sample”*** organized by Department of Chemistry, Ramjas college, University of Delhi on 28th Nov. 2017.

LIST OF ORAL/POSTER PRESENTATIONS

- **Oral Presentation** in entitled ***“Exploration of the advanced materials and their composites for environmental remediation”*** in **International conference on emerging**

trends in functional materials in sciences” organized by maharishi Dayanand University, Rohtak, Haryana on Nov. 21-22. 2024.

- **Oral Presentation** in entitled “**Benzimidazole derivatives as potent agents for organic transformation**” in “**International conference on Crossroad of chemistry, biology and atmosphere environment: A modern prospective** organized by University of Delhi on Feb. 26-28, 2024.
- **Oral Presentation** in entitled “**Anti-Cancer activity of benzimidazole derivative on various cancer cell lines**” in “**International conference on Veda, Vijnana & Sanskriti Mahakumbha**” organized by Gurukula Kangri University, Haridwar. on Dec. 23-25, 2023.
- **Oral Presentation** in “**National Conference on “Government Educational Institutions: Current Scenario and Challenges**” organized by Guhar in collaboration with Digambar Jain College (Affiliated to C.C.S University, Meerut, U.P) on March 24-25, 2023.
- **Oral presentation** in “**International Conference on advances in chemical sciences and nanocomposites**” organized by the Zakir Husain Delhi College, University of Delhi & Indian Society of Analytical Scientists, (ISAS) Delhi Chapter on April 1-2, 2022.
- **Oral Presentation** in “**National Conference on Relevance of Veda, Science & Technology in COVID-19**” organized by the Department of Computer Science, Faculty of Technology, Gurukula Kangri Vishwavidyalaya, Haridwar. on July 30-31, 2020.
- **Oral Presentation** in “**2nd National Conference on Emerging Trends and Future Challenges in Chemical Sciences (ETFC-2020)**” organized by “Department of Chemistry, Kirori Mal College, University of Delhi, Delhi during 10-11 January 2020.
- **Oral Presentation** in “**Indian Analytical Congress (IAC-2019)**” organized by “Indian Society of Analytical Scientists: Delhi Chapter and FICCI at Amity University, Noida (Delhi –NCR) during 12-14 December 2019.
- **Oral Presentation** in “**Technology for Environmental Sustainability, Socio-Economic Responsibility and Associated Entrepreneurial Opportunities of 21st Century**” organized by Department of Chemistry, Sri Aurobindo College, University of Delhi, Delhi on 8-9th March 2019.
- **Oral Presentation** in *International conference on Advances in Analytical sciences* organized by ISAS-Delhi Chapter & CSIR IIP, Dehradun on 15-17 March 2018.
- **Oral Presentation** in *Recent Innovations in Chemical Science and environment technology* Organized by Department of Chemistry, Sri Aurobindo College, University of Delhi on 3-4th March 2017.
- **Oral Presentation** in *National Conference on Science & Technology for national Development* Organized by the Indian Science Congress Association: Haridwar Chapter and Department of Chemistry, Gurukula Kangri Vishwavidyalaya, Haridwar on 20-22 Nov. 2016.
- **Oral Presentation** in *1st National Conference on Emerging trends & future challenges in chemical sciences (ETFC-2016)* Organized by Department of Chemistry, Kirori Mal College, University of Delhi on 03-04 Feb. 2016.

- **Oral** Presentation at *Advanced in Chemical and Environmental Sciences* Organized by Department of Chemistry, Arya P.G College, Panipat (Haryana) on 27-28 Feb. 2014.
- **Certificate of Participation** by *The Indian Science Congress Association for Developing Scientific Temper* on National Science Day, Arya P.G College, Panipat 2014.
- Poster presented at- *Modern Trends in Inorganic Chemistry- (MTIC-XV) Organized by Department of Chemistry IIT Roorkee* on 13-16 Dec. 2013.
- Poster presented at- *3rd Asian Conference on Coordination Chemistry (ACCC-3) Organized by IIT Kanpur and Delhi* held in Indian Habitat Center on 17-20 Oct. 2011.

LIST OF CONFERENCES/ WORKSHOPS ATTENDED

- Chandrayaan-3 Mahaquiz organised by Gov. of India-Dec-2023
- International conference on Integrative Chemical Science for Health & Environment, ICHE-2023, organised by Deshbandhu College, University of Delhi, New Delhi held from 6–8th October 2023, New Delhi, India
- National Workshop on Indian Contribution to Chemical Sciences (ICCS-2022), organised by Department of Chemistry, University of Delhi, New Delhi on 6-7th May 2022.
- National Conference of “Science communicators and science teachers” organised by CSIR-NIScPR, Vigyan Prasar, VIBHA, New Delhi on 29-30 Nov. 2021.
- National Mathematics day on 22 Dec. 2021 at Vigyan Bhavan, New Delhi organised by Vigyan Prasar, DST, New Delhi
- International webinar on ChemSci2021: Leaders In The Field Symposium” organised by Royal Society of Chemistry on 14 Dec. 2021.
- International Webinar on “Drug Discovery-2021 (IWDD-2021)” Organised by Department of chemistry, ARSD College, University of Delhi, Delhi on 20 July 2021.
- National Webinar on “National Education Policy-NEP 2020: Opportunities, Challenges & Its Effective Implementation Organized by Faculty of Engineering & Technology, Gurukula Kangri (Samvishwavidyalaya), Haridwar on 29 April, 2021.
- International Seminar on “New Horizons in Chemical Sciences and Technology” organized by Department of chemistry, Ch. Chhotu Ram (P.G.) College Muzaffarnagar, U.P., India on September 29, 2020
- Faculty Development Programme national webinar on “Towards Excellence in Higher education in India in the 21st century: Challenges & opportunities” organised by Guru Angad Dev Teaching Learning centre SGTB Khalsa College, university of Delhi under the Pandit Madan Mohan Mission on Teachers and Teaching (PMMNMTT) of MHRD held on 01 May 2020.
- International Webinar on “Chemistry from Nature to Mankind to Combat COVID-19 (CNMCC-19)” organized by SGRM PG college in collaboration with ACT and Shri Ramswaroop Memorial University from 5th -7th June, 2020.
- Webinar on “Materials Science, Technology & Society (MSTS-2020)” organised by SPS, JNU New Delhi on 08-09 May 2020.
- Webinar on “How to be a transformational Leader-Leadership principal for the next Millennium” organised by FMS, Gurukula Kangri on 28 May 2020.

- Attended the *ACS on Campus* organized by Department of Chemistry, University of Delhi on 5th Feb. 2018.
- National Seminar on Emerging Economics and Challenges to sustainability towards Developing Nation held at Sri Aurbindo College, University of Delhi on 29-30th March 2016.
- Workshop on X-Ray diffraction systems and related applications containing XRD basics, Experimental techniques and data analysis using Highscore plus software organized by Department of Chemistry, University of Delhi on 25-26th Sep. 2014.
- Training and awareness program on Intellectual property rights organized by Controller general of patent, design and trademarks, FICCI, University of Delhi and Intellectual property INDIA at University of Delhi on 2nd Nov. 2014.
- Certificate of Attendance for How to write for and get published in scientific journal and publish Manuscripts, organized by Delhi University Library System on 23rd August 2012.
- Workshop on Information Literacy & Competency Organized by Delhi University library system, University of Delhi, Delhi on 14th March, 2011.
- National Seminar on “Role of Analytical Techniques in Biological and Environmental Sciences” Organized by Indian Society of Analytical Scientists (ISAS-DC) on 27-29 January 2011.
- Seminar on Nuclear Energy for National Development Organized by Bhabha Atomic Research Centre, Mumbai and University of Delhi, Delhi on 20th Oct. 2010.
- 13th ISCB International conference on Interplay of chemical and Biological sciences: Impact on Health and Environment in the Department of Chemistry, University of Delhi, Delhi, from 26th Feb.-1st March 2009.
- Indo-US Symposium on “Trends in Chemical Biology” Organized by the Department of Chemistry, University of Delhi, Delhi on 25th Feb. 2009.
- Secured First Position in Science Quiz in *TECHNOVA 08* at DCRUST, Murthal (Sonapat).
- Secured Third Position in Science Debate in *TECHNOVA 08* at DCRUST, Murthal (Sonapat).

Date: 10 March 2025

(Ravinder Kumar)