

Dr. RITU SINGH

Assistant Professor

Department of Environmental Science, School of Earth Sciences,
Central University of Rajasthan, Ajmer, Rajasthan

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AREAS OF RESEARCH INTEREST

Nano-Remediation, Waste-Water Treatment, Sustainable agriculture, Nano-Fertilizers,
Emerging Contaminants

EDUCATION

Ph.D. Environmental Science CSIR-IITR, Lucknow and Babasaheb Bhimrao Ambedkar University, Lucknow, U.P. Thesis Title: Remediation of Soil Contaminated with Hexavalent Chromium and gamma-Hexachlorocyclohexane (Lindane) using Zero- valent Iron Nanoparticles Supervisor: Prof. Rana P Singh (BBAU) Co-Supervisor: Dr. Virendra Misra (CSIR-IITR)	2008-2014
M.Sc. , Environmental Science, CSJM University, Kanpur, U.P.	2006-2008
B.Sc. , Botany, Zoology, Chemistry, CSJM University, Kanpur, U.P.	2003-2006

RESEARCH AND TEACHING EXPERIENCE

Assistant Professor, Department of Environmental Science, Central University of Rajasthan	Sep 2013-Till date
Senior Research Fellow at Analytical Chemistry Division, CSIR-Indian Institute of Toxicology Research, Lucknow, U.P.	Jan-Aug 2013
Senior Research Fellow at Ecotoxicology Division, CSIR-Indian Institute of Toxicology Research, Lucknow, U.P.	2011-2012
Junior Research Fellow at Ecotoxicology Division, Ecotoxicology Division, CSIR-Indian Institute of Toxicology Research, Lucknow, U.P.	2008-2010

ACADEMIC HONOURS/AWARDS

- **Best Research Paper** in International Conference on Smart Environment Management and Solutions (ICEMS-2022), April 21-22, 2022.
- **Young Scientist Award**, The Society for Science of Climate Change and Sustainable Development (SSCE), 2021
- **Best Session Paper** in International conference on "Recent Developments on Materials, Reliability, Safety, and Environmental issues", at NIT Jalandhar, June 25-27, 2021.
- **Best Paper Presentation Award** in National conference - ETWQQM-2019.

- **DEF Young Scientist Award**, by Academy of Environmental Biology, Dec 2013.
- Awarded **Senior Research Fellowship** by University Grant Commission (UGC), Oct 2011.
- Qualified **NET-UGC** and **Junior Research Fellowship** in Environmental Sciences, Dec 2008.
- Awarded **Gold Medal** in bachelors, 2004.

RESEARCH PROJECTS (COMPLETED/ ONGOING)

1. Risk assessment of phthalate esters in semi-arid region of Rajasthan and development of an EES approach for soil decontamination using eco-friendly nanomaterials
Funding Agency: CSIR-ASPIRE (25WS(006)/2023-24/EMR-II/ASPIRE), 24 Lakhs, (10 July 2024-9 July 2028) (*Ongoing*)
2. “Remediation of Heavy Metals Contaminated Water Using Encapsulated Zero-valent Iron Nanoparticles”
Funding Agency: UGC (F.30-97/2015 (BSR)), 6 Lakhs, (17 July 2015- 16 July 2017) (*Completed*)
3. “Remediation of pharmaceutical drugs using Chitosan modified Nanoscale Zerovalent Iron supported Biochar (CS@nZVI-BC) in Hail region, Saudi Arabia”, Collaborative project (2022)
Funding Agency: Deanship of Scientific Research, University of Hail (RD-21 090; 1443/7/27), 10,000 SAR (1 March 2022 – 1 Jan 2023)(*Completed*)
4. “Floating Treatment Wetland System (FTWS) - Sustainable green technology to remediate polluted surface water bodies in the COVID 19-era”, Collaborative project (2021-2024)
Funding Agency: APN (CRRP2021-11MY-P.Kayastha), 17,137 USD (1 Oct 2021 – 20 June 2024)(*Completed*)

Ph.D. SUPERVISION

S. No.	Name of the Scholar	Thesis title	Status
1.	Monalisha Behera 2016PHDES02	Removal of Endocrine Disrupting Chemicals from water using Metal Nanoparticles	<i>Thesis Awarded</i>
2.	Avimanu Sharma 2018PHDEVS002	Synthesis and Evaluation of Phytonutrient-Loaded Nanozeolite-based Fertilizers	<i>Thesis Awarded</i>
3.	Nisha Kumari 2018PHDEVS003	Synthesis and Application of Magnetic Nanoparticle and its Nanocomposites for Remediation of Emerging Contaminants	<i>Thesis Awarded</i>
4.	Prashant K Jaiswal 2019PHDEVS003	Investigation of microplastics prevalence in environment and its remediation using nanomaterials	<i>Thesis submitted</i>
5.	Rama Kishan 2023PHDEVS003	Remediation of Selected Pharmaceutically Active Compounds employing Iron Derived Metal Organic Framework Composites	<i>Ongoing</i>
6.	Swati Verma 2024PHDEVS005	Synthesis and Evaluation of Multinutrient Smart Nanofertilizers for Enhanced Crop Productivity	<i>Ongoing</i>
7	Babli Choudhary 2025PHDEVS00	Microplastics in Agricultural Soils of the Semi-Arid region: Assessments and Nanotechnology-enabled remediation	<i>Ongoing</i>

Master's Thesis Supervised: 40

Bachelor's Thesis Supervised: 22

PATENT

1. **Singh R.**, Sharma A, Kumar S, Siddique AJ, Rani A (2025) "A system for synthesizing Gum Acacia-Coated Iron Oxide Nanocomposites (GA-Fe₂O₃) as an eco-friendly slow-release fertilizer"; Patent No. 20 2025 101 544, Awarded by Federal Republic of Germany.
2. Kumar N, Yadav A, Shukla V, Mishra S, Anita, Kumar D, Kumar S, **Singh R.**, Pandey S, Singh M (2023) 'A process for preparing Bio-geo adsorbent for fluoride removal in drinking water'; Patent No. 444346, Awarded by Patent Office, Government of India.

PUBLICATIONS (h-Index 23, i-10 Index 35, Citations 2553 as per GOOGLE SCHOLAR)

1. Behera M, Kumari, N, Jaiswal PK, Adeogun A, Bhagawati PB, **Singh R*** (2025). Prediction and optimization of cationic textile dye adsorption using glutathione functionalized magnetic core-shell nanoparticles: an integrated RSM-ANN modelling approach. *Environmental Sustainability*, 1-26. DOI: 10.1007/s42398-025-00381-9 (**I.F. 2.8.**, ISSN No. 2523-8922)
2. Jaiswal PK, **Singh R***, Kumar S, Sharma D, Mukherjee A, Kumar N, Kumar R (2025). Assessment of Microplastic Pollution Load in Road Dust and Associated Health Risk in a Semi-Arid Region of Rajasthan. *Environmental Sustainability*, DOI: 10.1007/s42398-025-00370-y (**I.F. 2.8.**, ISSN No. 2523-8922)
3. Behera M, Murmu S, Kumari N, Jaiswal PK, **Singh R*** (2025). Investigating the impact of multiple background species on the reactivity of GSH@ Fe₃O₄ employing RSM-CCD design tool for the sorption of a model anionic dye. *Environmental Monitoring and Assessment*, 197(8):1-26. DOI: 10.1007/s10661-025-14287-w (**IF 3.2**, ISSN No. 1573-2959)
4. Jaiswal PK, Vijayan V, Kumar S, Kumar R, **Singh R*** (2025). Seasonal distribution of Microplastics and associated Ecological risks in a Semi-Arid Freshwater ecosystem in India. *Environmental Pollution*, 12:126430. DOI: [10.1016/j.envpol.2025.126430](https://doi.org/10.1016/j.envpol.2025.126430) (**IF 7.3**, ISSN No. 1873-6424)
5. Jaiswal PK, **Singh R***, Swaroop S, Kumar S (2025). Microplastic Contamination in Urban Environments: Insights from Street Dust Analysis in Jaipur. *Journal of Environment and Bioscience*, 39(01), 77-80. DOI: 10.59467/JEBS.2025.39.77 (ISSN No. 1424-8247).
6. Siddiqui AJ, Adnan M, Saxena J, Alam MJ, Abdelgadir A, Badraoui R, **Singh R*** (2025). Therapeutic Potential of Plant- and Marine-Derived Bioactive Compounds in Prostate Cancer: Mechanistic Insights and Translational Applications. *Pharmaceuticals*, 18(3):286. <https://doi.org/10.3390/ph18030286> (**IF 4.3**, ISSN No. 1424-8247)
7. Abdelgadir A, Adnan M, Patel M, Saxena J, Alam MJ, Alshahrani MM, **Singh R.**, ... & Siddiqui AJ (2024). Probiotic *Lactobacillus salivarius* mediated synthesis of silver nanoparticles (AgNPs-LS): A sustainable approach and multifaceted biomedical application. *Heliyon*, 10(18) e37987. DOI: [10.1016/j.heliyon.2024.e37987](https://doi.org/10.1016/j.heliyon.2024.e37987) (**IF 3.4**, ISSN No. 2405-8440)
8. Behera M, Singh J, Kumari N, & **Singh, R*** (2024). Fabrication of novel glutathione-Fe₃O₄-loaded/activated carbon encapsulated sand bionanocomposites for enhanced removal of diethyl phthalate from aqueous environment in a vertical flow reactor. *Environmental Research*, 260, 119588. DOI: 10.1016/j.envres.2024.119588 (**I.F. 8.431**, ISSN No. 1096-0953)
9. Biswas S, **Singh R**, Biswas J (2024). Two Seasons-based Preliminary Speleological Study of Green Cave of Kanger Valley National Park, Chhattisgarh, India. *Ambient Science*, 11(1), 01-06 DOI:10.21276/ambi.2024.11.1.aa01. (ISSN No. 2348 5191)
10. Kumari N., Arya S, Behera M, Seth CS, **Singh R*** (2024). Chitosan anchored nZVI bionanocomposites for treatment of textile wastewater: Optimization, mechanism, and phytotoxic assessment. *Environmental Research*. 245, 118041 DOI: 10.1016/j.envres.2023.118041 (**I.F. 8.431**, ISSN No. 1096-0953)

11. Kumar D, **Singh R**, Upadhyay SK, Verma KK, Tripathi RM, Liu H, Dhankher OM, Tripathi RD, Sahi SV, Seth CS (2023). Review on interactions between nanomaterials and phytohormones: Novel perspectives and opportunities for mitigating environmental challenges. *Plant Science*. 340, 111964. DOI: 10.1016/j.plantsci.2023.111964 (**I.F. 52**, ISSN No. 1873-2259)
12. Sharma A, Kuma S, **Singh R*** (2023). Formulation of Zinc oxide/Gum acacia nanocomposite as a novel slow-release fertilizer for enhancing Zn uptake and growth performance of *Spinacia oleracea* L. *Plant Physiology and Biochemistry*, 201, 107884. DOI: 10.1016/j.plaphy.2023.107884 (**I.F. 6.5**, ISSN No. 1873-2690)
13. Siddiqui AJ, Kumari N, Adnan M, Kumar S, Abdelgadir A, Saxena J, Badraoui R, Snoussi M, Khare P, **Singh R*** (2023) Impregnation of modified magnetic nanoparticles on low-cost agro-waste derived biochar for enhanced removal of PhACs: Performance evaluation and optimization using RSM-CCD approach. *Water*, 15, 1688. DOI: 10.3390/w15091688 (**I.F. 3.53**, ISSN 2073-4441)
14. Jain B, Jain R, Jaiswal PKJ, Zughaibi T, Sharma T, Kabir A, **Singh R**, Sharma S (2023) A non-instrumental green analytical method based on surfactant assisted dispersive liquid-liquid microextraction-thin layer chromatography-smartphone based digital image colorimetry (SA-DLLME-TLC-SDIC) for determining favipiravir in biological samples. *Molecules*, 28, 529. DOI: 10.3390/molecules28020529 (**I.F. 4.927**, ISSN 1420-3049)
15. Kumari N, Behera M, **Singh R*** (2022) Facile synthesis of biopolymer decorated magnetic coreshells for enhanced removal of xenobiotic azo dyes through experimental modelling, *Food Chem. Toxicol*, 171;113518. DOI: 10.1016/j.fct.2022.113518 (**I.F. 5.572**, ISSN 0278-6915)
16. Sharma A, Kumar S, **Singh R*** (2022) Synthesis and Characterization of a Novel Slow-release Nanourea /Chitosan nanocomposite and its effect on *Vigna radiata* L. *Environmental Science: Nano*, 9, 4177-4189. DOI: 10.1039/D2EN00297C (**I.F. 9.40**, ISSN No. 2051-8161)
17. Behera M, Kumari N, Raza K, **Singh R*** (2022) Fabrication of glutathione functionalized self-assembled magnetite nanochains for effective removal of Crystal Violet and Phenol Red dye from aqueous matrix. *Environ Sci Pollut Res*. 29, 72260–72278. DOI:10.1007/s11356-022-19520-4. (**I.F. 5.8**, ISSN No. 0944-1344)
18. Siddiqui A, Jahan S, **Singh R**, Saxena J, Khan AA, Chaudhry R, Badraoui R, Bardakci F, Adnan M, Balakrishnan S (2022) Plants in Anticancer Drug Discovery: From Molecular Mechanism to Chemoprevention. *BioMed Research International*. 2022; 5425485. DOI 10.1155/2022/5425485 (**I.F. 3.246**, ISSN No. 2314-6133)
19. **Singh R***, Behera M, Kumari N, Kumar S, Rajput VD, Minkina TM, Adnan M, Siddiqui AJ, Kumar N (2021). Nanotechnology-Based Strategies for the Management of COVID-19: Recent Development and Challenges. *Curr Pharm Des*. 27(41), 4197 – 4211. DOI: 10.2174/1381612827666210830105459. (**I.F. 3.1**, ISSN No. 1873-4286)
20. Giri R, Kumari N, Behera M, Sharma A, Kumar S, Kumar N, **Singh R*** (2021). Adsorption of hexavalent chromium from aqueous solution using pomegranate peel as low-cost biosorbents. *Environmental Sustainability*, 4, 401–417. DOI:10.1007/s42398-021-00192-8. (ISSN No. 2523-8922)
21. Ashraf SA, Siddiqui AJ, Abd Elmoneim OE, Khan MI, Patel, M., Alreshidi, M.,... **Singh R**, Snoussi M, & Adnan, M. (2021). Innovations in Nanoscience for the Sustainable Development of Food and Agriculture with Implications on Health and Environment. *Science of the Total Environment*, 786, 144990. DOI: 10.1016/j.scitotenv.2021.144990 (**I.F. 10.753**, ISSN No. 0048-9697)
22. Kumar S, **Singh R***, Kumari N, Karmakar S, Behera M, Siddiqui AJ, Rajput VD, Minkina T, Baudhdh K, Kumar N. (2021). Current understanding of the influence of environmental factors on SARS-CoV-2 transmission, persistence, and infectivity. *Environ Sci Pollut Res*, 28, 6267–6288. Doi: 10.1007/s11356-020-12165-1. (**I.F. 5.8**, ISSN No. 0944-1344)
23. Siddiqui AJ, Danciu C, Ashraf SA, Moin A, **Singh R**, Alreshidi M, ... & Badraoui R (2020). Plants-Derived Biomolecules as Potent Antiviral Phytomedicines: New Insights on Ethnobotanical Evidences against Coronaviruses. *Plants*, 9(9), 1244. 10.3390/plants9091244 (**I.F. 4.658**, ISSN No. 2223-7747)
24. Chaplygin VA, Rajput VD, Mandzhieva SS, Minkina TM, Nevidomskaya DG, Nazarenko OG, Kalinitchenko VP, **Singh R**, Maksimov AY, Popova VA (2020) Comparison of Heavy Metal Content

- in *Artemisia austriaca* in Various Impact Zones. **ACS omega**, 5(36), 23393-23400. DOI: 10.1021/acsomega.0c03340 (I.F. 4.132, ISSN No. 2470-1343)
25. Siddiqui AJ, Jahan S, Ashraf SA, Alreshidi M, Ashraf MS, Patel M, Snoussi M, **Singh R** & Adnan M (2020). Current status and strategic possibilities on potential use of combinational drug therapy against COVID-19 caused by SARS-CoV-2. **Journal of Biomolecular Structure and Dynamics**, 39(17):6828-6841. DOI:10.1080/07391102.2020.1802345. (I.F. 4.4, ISSN No. 1538-0254)
 26. Rajput V, Minkina T, Ahmed B, Sushkova S, **Singh R**, Soldatov M, ... & Musarrat J (2019). Interaction of Copper-Based Nanoparticles to Soil, Terrestrial, and Aquatic Systems: Critical Review of the State of the Science and Future Perspectives. **Rev Environ Cont Toxicol**. 252 pp 51-96. DOI 10.1007/398_2019_34. (I.F. 7.9, ISSN No. 0179-5953)
 27. Rajput VD, Minkina TM, Behal A, Sushkova SN, Mandzhievaa S, **Singh R**, Gorovtsov A, Tsitsuashvili VS, Purvis WO (2018) Effects of Zinc-oxide nanoparticles on soil, plants, animals and soil organisms: A review. **Environ Nanotechnol Monit Manag**. 9, 76-84. DOI: 10.1016/j.enmm.2017.12.006 (I.F. 1.430, ISSN No. 2215-1532)
 28. Jain R, **Singh R**, Sudhaker S, Barik, AK, Kumar S (2017) Coupling microextraction with thin layer chromatography image processing analysis: A new analytical platform for drug analysis. **Toxicology and Forensic Medicine Open Journal**, 2(1), 17-25. DOI: 10.17140/TFMOJ-2-113 (ISSN No. 2474-8978)
 29. Jain R, **Singh R** (2016) Microextraction techniques for analysis of cannabinoids. **TRAC-Trend Anal. Chem.** 80, 156-166 DOI: 10.1016/j.trac.2016.03.012 (I.F. 14.908, ISSN No. 0165-9936)
 30. Jain R, **Singh R*** (2016) Applications of dispersive liquid-liquid microextraction in forensic toxicology. **TRAC-Trend Anal. Chem.** 75, 227-237. doi: 10.1016/j.trac.2015.07.007 (I.F. 14.908, ISSN No. 0165-9936)
 31. Mudiam MKR, Jain R, **Singh R** (2014) Application of ultrasound-assisted dispersive liquid-liquid microextraction and auto-injector port silylation for the simultaneous determination of phenolic endocrine disruptor chemicals in water samples by gas chromatography - triple quadrupole mass spectrometry. **Anal. Meth.** 6, 1802-1810. doi:10.1039/C3AY41658E (I.F. 3.532, ISSN No. 0003-2654)
 32. **Singh R**, Manickam N, Mudiam MKR, Murthy RC, Misra V (2013) An integrated (nano-bio) technique for Degradation of γ -HCH Contaminated Soil. **J. Hazard. Mater.** 258-259, 35-41. doi: 10.1016/j.jhazmat.2013.04.016. (I.F. 14.224; ISSN No. 0304-3894)
 33. **Singh R**, Misra V, Mudiam MKR, Chauhan LKS, Singh RP (2012) Degradation of γ -HCH spiked soil using stabilized Pd/Fe⁰ bimetallic nanoparticles: Pathways, kinetics and effect of reaction conditions. **J. Hazard. Mater.** 237-238, 355-364. 10.1016/j.jhazmat.2012.08.064 (I.F. 14.224; ISSN No. 0304-3894)
 34. **Singh R**, Misra V, Singh RP (2012) Removal of Cr(VI) by nanoscale zero-valent iron (nZVI) from soil contaminated with tannery wastes. **Bull. Environ. Contam. Toxicol.** 88, 210-214. 10.1007/s00128-011-0425-6 (I.F. 2.807; ISSN No. 0007-4681)
 35. **Singh R** (2012) Integrated Approach for the Enhanced Degradation of Lindane, in proceedings of 57th OMICS Group Conference, **J Ecosyst Ecogr**, 2, 169. DOI: 10.4172/2157-7625.S1.009 (I.F. 0.02; ISSN No. 2157-7625)
 36. **Singh R**, Singh A, Misra V, Singh RP (2011) Degradation of Lindane contaminated soil using zero-valent iron nanoparticles. **J. Biomed. Nanotechnol.** 7, 175-176. 10.1166/jbn.2011.1256 (I.F. 4.483; ISSN No. 1550-7033)
 37. **Singh R**, Misra V, Singh RP (2011) Remediation of γ -Hexachlorocyclohexane contaminated soil using nanoscale zero-valent iron. **J. Bionanosci.** 5, 82-87. 10.1166/jbns.2011.1039 (I.F. 1.050; ISSN No. 1557-7910)
 38. **Singh R**, Misra V, Singh RP (2011) Synthesis and characterization of Zero-valent iron nano-particle and its role in removal of hexavalent chromium from chromium spiked soil. **J. Nanoparticle Res.** 13, 4063-4073. 10.1007/s11051-011-0350-y (I.F. 2.533; ISSN No. 1388-0764)

39. **Singh R**, Misra V, Singh RP (2011) Removal of Hexavalent Chromium from contaminated Ground Water using Zero-valent Iron Nanoparticles. *Environ. Monit. Assess.* 184:3643–3651. 10.1007/s10661-011-2213-5 (**I.F. 3.307**, ISSN No. 0167-6369)
40. **Singh R**, Misra V, Singh RP (2011) Remediation of Cr(VI) contaminated soil by zero-valent iron nanoparticles entrapped in calcium alginate beads, in proceedings of ICESD-2011, *IPCBEE*, 4, 162-165. (ISBN No. 978-1-4244-9235-0)

APPLICATION NOTE

1. Mudiam MKR, Jain R, **Singh R**, Huebschmann HJ (2015) Determination of Phenolic Endocrine Disruptors in Water by GC-MS/MS using Injection Port Derivatization ThermoFisher Scientific, Application Note 10471.

BOOKS

1. Kumar S, Karmakar S, Rani A, **Singh R** (2024) 'Adaptive Agro-mangement for Environmental Sustainability', CRC Press (ISBN:9781032538808)
2. Kumar S, Buddh K, **Singh R**, Kumar N, Kumar R (2023) 'Aquatic Macrophytes: Ecology, Functions and Services', Springer Nature (ISBN: 978-981-99-3822-3)
3. Jain R, **Singh R** (2021) 'Microextraction Technique in Analytical Toxicology, CRC Press, Taylor and Francis Group (ISBN 9780367651947).
4. **Singh R**, Kumar S (2017) 'Green Technologies and Environmental Sustainability', Springer International Publishing AG, Gewerbestrasse 11, 6330 Cham, Switzerland. (ISBN No. 978-3-319-50653-1).

BOOK CHAPTERS

1. Karmakar S, Basu T, Kar B, Sharma A, Siddique AJ, **Singh R**, Kumar S, Saha G (2025). AI enhanced Agriculture: Innovative Technologies and Emerging Trends. In Adaptive Agro-mangement for Environmental Sustainability (Eds Kumar S, Karmakar S, Rani A, Singh R) CRC Press, Ch 11, Press (ISBN:9781032538808)
2. Bhagawan D, Verma K, Poodari S, Kamble PN, Kaushik G, **Singh R** (2024). Lignocellulose Materials as a Potential Feedstock for Hydrogen Production. In *Green Hydrogen Economy for Environmental Sustainability Volume 2: Applications, Challenges, and Policies* (Eds Kothari R, Pathania D) American Chemical Society, Ch 6, pp. 117-134 (ISBN: 9780841296695)
3. **Singh R**, Sharma A, Goswami P, Pradhananga D, Aryal D, Pradhanang SM (2023). Phytoremediation of Organic Contaminants: An Eco-friendly Approach-Based Application of Aquatic Macrophytes. In: *Aquatic Macrophytes: Ecology, Functions and Services* (Eds Kumar, S, Bauddh, K, Singh R, Kumar N, Kumar R) Springer, Singapore, Ch 9, pp. 175-205 (ISBN: 978-981-99-3822-3)
4. Kumar, S., **Singh, R**, Kumar, D., Bauddh, K., Kumar, N, Kumar, R. (2023). An Introduction to the Functions and Ecosystem Services Associated with Aquatic Macrophytes. In: *Aquatic Macrophytes: Ecology, Functions and Services* (Eds Kumar, S, Bauddh, K, Singh R, Kumar N, Kumar R) Springer, Singapore, Ch 1, pp 1-20 (ISBN: 978-981-99-3822-3)
5. Siddiqui, A.J., Jahan, S., Adnan, M., Ashraf, S.A., **Singh, R**. (2023). Macrophytes and Their Role in Wetland Ecosystems. In: *Aquatic Macrophytes: Ecology, Functions and Services* (Eds Kumar, S, Bauddh, K, Singh R, Kumar N, Kumar R) Springer, Singapore, Ch 6, pp 119-138 (ISBN: 978-981-99-3822-3)

6. Siddiqui AJ, Ashraf SA, Badraoui R, Bardakci F, **Singh R**, Jahan S, Kumar S (2023) Nanoformulations and Herbal Drug Development. In *Ethnobotany and Ethnopharmacology of Medicinal and Aromatic Plants* (Eds Adnan M, Patel M, Snoussi M) CRC Press, pp. 321-342 (ISBN 978-103-22-5609-2)
7. Siddiqui, AJ, **Singh, R***, Jahan S, Alshammari N, Khan A, Badraoui R, Arora D, Adnan M. (2023) Viral structure and stability in various biotic and abiotic environments. In *Smart Nanomaterials to Combat the Spread of Viral Infections* (Eds Khan R, Sadique MS) Academic Press, pp. 23-60 (ISBN 9780323991483).
8. Karmakar S, Roy R, Bhattacharya A, Biswajit K, Kumar S, **Singh R**, Bauddh K, Kumar N (2022) Rhizobacteria assisted phytoremediation of oily sludge contaminated sites. In *Advances in Microbe-Assisted Phytoremediation of polluted sites* (Eds Bauddh K, Ma Y), Elsevier, pp 403-417 (ISBN 9780128234433).
9. Siddiqui AJ, **Singh R**, Jahan S, Alreshidi M, Hamadou, WS, Khan A, Ahmad A, Patel M, Abdelmuhsin AA, Sulieman AME, Adnan M (2022). Enzymes in Food Fermentations. In *African Fermented Food Products-New Trends* (Eds Elhadi Sulieman, A.M., Adam Mariod, A.) Springer nature, Switzerland, pp. 101-133 (ISBN: 978-3-030-82902-5).
10. Jain R, **Singh R**, Kabir A (2021) Microextraction Techniques in Analytical Toxicology: An Overview, In *Microextraction Techniques in Analytical Toxicology* (Eds Jain R, Singh R, Kabir A) CRC Press, Ch1, pp 18-27 (ISBN 9780367651947)
11. **Singh R***, Kumar S, Karmakar S, Siddiqui AJ, Mathur A, Adnan Mohd., Rajput V, Rani A, Kumar N (2021) Causes, Consequences, and Control of Persistent Organic Pollutants, In *Persistent Organic Pollutants in the Environment Origin and Role Publisher* (Eds Kumar N Shukla V) CRC Press, Ch2, pp 31-53 (ISBN 9780367512880)
12. **Singh R***, Jaiswal PK, Kumari N, Behera M, Sharma A, Gupta SK (2021) Microbially synthesized nanomaterials for remediation of organic contaminants. In *Microbe Mediated Remediation of Environmental Contaminants* (Eds Kumar A, Singh VK, Singh P, Mishra VK) Woodhead Publishing Series in Food Science, Technology and Nutrition, Woodhead Publishing, Ch 23, pp 287-301 (ISBN 978-0-12-821199-1) <https://doi.org/10.1016/B978-0-12-821199-1.00023-7>.
13. **Singh R***, Sharma A, Kumari, N, Behera M, Kumar S, Siddiqui AJ (2020) Nanoagroparticles: An emerging trend in modern agriculture system. In *Ecological and Practical applications for sustainable agriculture* (Eds Bauddh K, Kumar S, Singh RP, Korstad J), Springer nature, Singapore, pp 207-227 (ISBN 978-981-15-3371-6).
14. Kumar S, Kumari N, Karmakar S, Ankit, **Singh R***, Behera M, Rani A, Kumar N (2020) Advances in plant-microbe-based remediation approaches for environmental cleanup, In: *Emerging eco-friendly green technologies for wastewater treatment, Microorganism for Sustainability* (Eds Bhargava, R.N.) 18, Springer nature, Singapore, pp 103-128 (ISBN 978-981-15-1389-3)
15. **Singh R***, Behera M, Kumar S (2019) Nano-Bioremediation: An Innovative Remediation Technology for Treatment and Management of Contaminated Sites, In *Bioremediation of Industrial Waste for Environmental Safety – Vol. I: Biological Agents and Methods for Industrial Waste Management* (eds Bhargava RN, Saxena G) Springer Nature, Singapore, pp 165-182 (ISBN 978-981-13-3425-2)
16. **Singh R***, Behera M, Kumar S (2019) Current state of knowledge on algae mediated remediation of Endocrine Disrupting Chemicals (EDCs) from wastewater, In *Application of Microalgae in Wastewater Treatment- Volume 1: Domestic and Industrial Wastewater Treatment*, (eds Gupta SK, Bux F), Springer Nature, Singapore, pp 101-120 (ISBN 978-3-030-13912-4)
17. Kumar S, **Singh R**, Behera M, Kumar V, Sweta, Rani A, Kumar N, Bauddh K (2019) Restoration of pesticide contaminated sites through plants, In *Phytomanagement of polluted sites* (eds Pandey VC, Bauddh K), Elsevier. Ch 12, pp 313-327 (ISBN: 978-0-128-13912-7)
18. Kumar S., Kumar M., **Singh R.**, Kumar D., Prasad R., Ankit, Rani A., Kumar N (2018) Plant-microbe symbiosis a synergistic approach for heavy-metal bioremediation. In: *Recent Advances in Environmental Management* (Ed Bharagava R.N.) CRC press, Taylor & Francis Group, USA, pp 293-309. (ISBN: 978-0-8153-8314-7)
19. Prasad R, Kumar S, Yadav, AK, Kumar, S, Kumar, M, **Singh R***, Kumar N (2017) *Impacts of Climate Change on Agriculture: Adaptation, Mitigation and Environmental Policy*, In: *Plant adaptations*

- strategies in changing environment (Eds Shukla V, Kumar S, Kumar N) Springer Publication, 329-345. (ISBN 978-981-10-6744-0).
20. Kumar S, **Singh R***, Kumar V, Rani A (2017) *Cannabis sativa: A plant suitable for Phytoremediation and Bioenergy production*, In: Phytoremediation Potential of Bioenergy Plants (eds Bauddh K and Singh B), 269-285, Springer publication. (ISBN No. 978-981-10-3083-3).
 21. Misra V, **Singh R***, Kumar S (2017) *Need for an integrated approach towards environmental quality control in developing countries*, In: Green Technologies and Environmental Sustainability (eds Singh R, Kumar S), Chapter 11, 241-258, Springer International Publishing AG, Gewerbestrasse 11, 6330 Cham, Switzerland. (ISBN No. 978-3-319-50653-1).
 22. **Singh R**, Misra V (2015) *Stabilization of Zero-valent Iron Nanoparticles: Role of Polymers and Surfactants*, In: Handbook of Nanoparticles (eds Aliofkhazraei M), 1-19, Springer International Publishing Switzerland, (ISBN No. 978-3-319-13188-7)
 23. Kumar S, Bauddh K, **Singh R**, Rani A (2015) *Nitrogen use efficiency of Triticum aestivum (L.) under condition of elevated carbon dioxide and temperature*, In: Climate Change and Environment (eds Sharma D), Chapter 6, 71-85, New India Publishing Agency (ISBN: 978-9-385-51637-5)
 24. **Singh R**, Misra V (2014) *Application of Zero-valent Iron Nanoparticles for Environmental Clean Up*, In: Advanced Materials for Agriculture, Food, and Environmental Safety (eds A Tiwari and M Syväjärvi), John Wiley & Sons, Inc., Hoboken, NJ, USA. Chapter 14, 385-414, (ISBN No. 978-1-118-77385-7)
 25. Misra V, **Singh R**, Sharma R (2011) *Environmental application of nanotechnology with special reference to nano scale zero-valent iron (nZVI)*, In: Nanomaterials and Hazard Assessment (eds PV Mohanan), Educational Book Center, Mumbai, India, Chapter 17, 287-306. (ISBN No. 978-8-1903-6261-5).

CONFERENCES/SEMINARS/SYMPOSIUM

INVITED LECTURE/SESSION CHAIR

1. 'Harnessing Advanced Nanomaterials for Environmental Remediation' in International Conference on Advanced Materials and Startup Ecosystem (ICAMSE-2024), 13th-15th Dec 2024, organized by Trivandrum Engineering Science and Technology (TrEST) Research Park, Thiruvananthapuram, Kerala, India.
2. Chaired a session in the National Conference on Women in Decision-Making and Leadership: Shattering Stereotypes and Creating Futures (NCWDL 2024), 3rd-4th Dec 2024, organized by Central University of Rajasthan, Ajmer, India.
3. 'Synthesis and Evaluation of Chitosan-Coated Nanourea as an Eco-Friendly Fertilizer: Implications for Sustainable Agriculture' in International Conference on Integrative Interdisciplinary Avenues in Biology and Applied Science: Perspectives to Sustainable Development, 27th-28th April 2024, organised by M.L.K.(P.G.) College, Balrampur in association with Asian Biological Research Foundation (ABRF) Prayagraj, Uttar Pradesh, India.
4. 'Assessment of synthetic dyes removal from aqueous environments using modified magnetite nanoparticles', in International Conference on Recent Trends in Materials Science & Devices 2023 (ICTMRD 2023), 22nd-23rd July 2023, organized by Research Plateau Publishers & G.A.V. Degree College, Patauda, Jhajjar, Haryana, India.
5. 'Application of Nanotechnology in Environmental Remediation' at International Conference on Current Trends in Waste Treatment, Reuse, and Valorization, 25th to 27th February, 2022 organized by The Society for Green Environment, New Delhi, India in Association with Sandip University, Nashik, Maharashtra, India.

6. 'Nanoparticles based remediation of environmental contaminants' at Safe and Sustainable Technologies and Strategies for Integrated Freshwater Resource Management, 25th to 28th June, 2019, JSS Academy of Higher Education and Research, Mysuru, Karnataka
7. Chaired a session on 'WFE Nexus Technology for Sustainable Management' in Safe and Sustainable Technologies and Strategies for Integrated Freshwater Resource Management, 25th to 28th June, 2019, JSS Academy of Higher Education and Research, Mysuru, Karnataka.
8. 'Water Testing Parameters' Delivered an Invited Lecture on 24th November 2017 in the Capacity Building Workshop of Eco-WASH, organized by the Department of Social Works, Central University of Rajasthan, on November 22-26, 2017, under the aegis of the Department of Science and Technology (NCSTC), Government of India, New Delhi.
9. 'Application of Nanoparticles for Remediation of Organic and Inorganic Pollutants' at Indo-UK Workshop: Nano-Biomaterials for Water Purification, 12th-16th Dec 16, MG University, Kottayam, Kerala.

ORAL PRESENTATION

1. **Singh R-** 'Glutathione-Based Surface Modification of Nanoparticles for Enhanced Organic Pollutant Removal' at *International Conference on Sustainable Innovations through Chemistry & Environmental Science*, 6th Dec, 2025, Dashmesh Khalsa College, Punjab.
2. **Singh R-** 'Assessing Microplastic Pollution in Man Sagar Lake: Abundance, Polymer Composition, and Ecological Risk' at *International Conference on Emerging Trends in Water Quantity & Quality Management (ETWQQM-2025)*, 22nd- 23rd March, 2025, Poornima University, Jaipur.
3. **Singh R-** 'Synthesis and optimization of clay supported nano photocatalyst for degradation of tricyclic antidepressant drug from aqueous matrices' at *8th International Conference on Engineering Research and Innovations (ICERI-2023)*, 21st- 22nd Sep 2023, Terna Engineering College (TEC), Nerul, Navi Mumbai in association with Institute For Engineering Research and Publication (IFERP)
4. **Singh R-** 'Evaluation of azo dyes removal with polymer functionalized iron nanoparticles' at *International Conference of Emerging Trends in Water Quantity & Quality Management (ETWQQM-2023)*, 22nd- 23rd March, 2023, Poornima University, Jaipur.
5. **Singh R-** 'Comparative evaluation of the effect of commercial urea and nanourea on growth and development of Mungbean' at *International Conference on Emerging Trends in Plant and Environment Sciences*, 2nd-4th February, 2023, University of Rajasthan, Jaipur.
6. **Singh R-** 'Magnetic core shell nanoparticles for enhanced removal of xenobiotic dyes through experimental modeling' at *National Conference on Sustainable Environment "Challenges and Opportunities*, 29th-30th Aug 2022, Era University, Lucknow.
7. **Singh R-** 'Assessment of Microplastics in the industrial area of Jaipur city' at *International Conference on Smart Environment Management and Solutions (ICEMS-2022)*, 21st-22nd April 2022, IFERP.
8. **Singh R** – 'Synthesis of chitosan modified nZVI for anionic azo dye removal from aqueous solution: Isotherm, Kinetics and RSM modelling approach' at *International Conference on Smart Environment Management and Solutions (ICEMS-2022)*, 21st-22nd April 2022, IFERP.
9. **Singh R** – 'Evaluation of two synthetic dyes removal from aqueous environments using modified magnetite nanoparticles: A comparative study' at *International conference on "Recent Developments on Materials, Reliability, Safety, and Environmental issues*, 25th-27th June 2021, NIT Jalandhar.

10. **Singh R** – Surface modified magnetite nanoparticles for dye removal: Kinetics and thermodynamics at International e-Conference on WATER SOURCE SUSTAINABILITY, *Indian Water Resources Society (IWRS) and Department of Water Resources Development and Management*, IIT Roorkee June 18-20, 2021, Roorkee.
11. **Singh R** – ‘Functionalization of Magnetic Nanoparticles for Remediation of Synthetic Dyes’ at *International Conference On Advances in Chemical, Biological and Environmental Engineering (ICACBEE-2021)*, Under TEQIP III, 23th -24th April, 2021, Malaviya National Institute of Technology, Jaipur.
12. **Singh R** – ‘Application and optimization of vortex assisted emulsified microextraction coupled with UV-Visible spectrophotometer for determination of acetyl salicylic acid in water samples’ at *National Conference on Emerging Trends in Water Quality and Quantity Management-III*, 22nd-23rd April 2021, Poornima University, Jaipur
13. **Singh R** – ‘Assessment of dye removal capability of polymer functionalized nanoparticles’ at *International conference on “Environmental sustainability: Innovations, translational dimensions and way forward*, 11th-12th Feb 2020, BBA University, Lucknow.
14. **Singh R** - Application and Optimization of Vortex Assisted Emulsified Microextraction Coupled with UV-Visible Spectrophotometer for Determination of Acetyl Salicylic Acid in Water Samples at *National Conference on Emerging Trends in Water Quality and Quantity Management-II*, 29th-30th March 19, Poornima University, Jaipur.
15. **Singh R** - Application of Iron Nanoparticles for Environmental Clean up at *VI Rajasthan Science Rajasthan Science Congress*, 13th-15th October 18, Central University of Rajasthan, Ajmer.
16. **Singh R** - 'Application of Iron Nanoparticles for Environmental Clean up' at National Seminar on environmental conservation and Waste Management: Challenges and Alternatives, 5th June 18, IGCHEEPS, University of Rajasthan, Jaipur.
17. **Singh R**, Pathak AK, Kumar S - Application of Nanoparticles for Remediation of Textile Industry Wastewater at International Conference on Nanoscience and Nanotechnology (ICNAN'16), 19th-21st Oct 16, VIT University, Vellore.
18. **Singh R**, Rajeev Jain- Vortex Assisted Emulsification Microextraction coupled with UV-Visible Spectrophotometer: A Green Analytical Method for rapid analysis of Acetyl Salicylic Acid In Environmental and Biological Samples at *International Conference on Recent Advances in Analytical Science (RAAS-2016)*, 7th-9th April 16, IIT BHU, Varanasi.
19. **Singh R**- ‘A Green Approach for Environmental Remediation’ at *National Conference on Climate Change and Sustainable Development Emerging Issues and Mitigation Strategies (CCSD 2015)*, 23rd-24th Nov 15, Babasaheb Bhimrao Ambedkar University, Lucknow.
20. **Singh R**- ‘Removal of Eriochrome Black T from aqueous samples using Nanotechnology’ at *2nd International Conference on Emerging Technology- Micro to Nano (ETMN 2015)*, 24th -25th Oct 15, Manipal University, Jaipur.
21. **Singh R**- ‘Nanoparticles: Opportunities in Environmental Remediation’ at *4th Biennial International Conference on ‘Entrepreneurship, Tourism, Energy, Environment’*, 11th-12th Oct 14, Maharshi Dayanand University, Ajmer.
22. **Singh R** - “New approach for pesticides removal- Nanotechnology” at *International Conference on Non-Renewable Energy Sources (NCRER-2014)*, 28th-29th Mar 2014, Bhagwant University, Ajmer, India.
23. **Singh R**, Misra V, Singh RP - “Nanoparticles- A Remediation tool for Environmental Clean up” at *33rd Annual Session of The Academy of Environmental Biology and International Conference on*

Biosciences with Special Reference to Environmental Issues (ICBEI-2013), 18th – 20th Dec 2013, Shivaji University, Kolhapur, India.

24. **Singh R**, Murthy RC, Misra V - "Removal of Hexavalent Chromium using stabilized bimetallic nanoparticles" at *International Conference on Advances in Free Radicals, Redox Signaling and Translational Antioxidant Research & XII Annual Meeting of the Society of Free Radical Research, India (SFRR STAR 2013)*, 30th Jan – 1st Feb 2013, Hotel Clark Avadh, Lucknow, India.
25. **Singh R**, Misra V, Murthy RC - "Degradation of γ -HCH by an integrated nano-bio redox process" at *International Conference on Chemistry and Materials: Prospects and Perspectives – 2012 (ICCMPP-2010)*, 14th – 16th Dec, 2012, Babasaheb Bhimrao Ambedkar University, Lucknow, India.
26. **Singh R**, Misra V, Murthy RC - "Integrated Approach for the Enhanced Degradation of Lindane" at *International Conference on Biodiversity & Sustainable Energy Development (ICBSED 2012)*, 14th – 16th Sep 2012, International Convention Centre, HICC Complex, Hyderabad, India.
27. **Singh R**, Singh A, Misra V, Singh RP - "Degradation of Lindane contaminated soil using zero-valent iron nanoparticles" at *International Symposium on the safe use of Nanomaterials & Workshop on Nanomaterial Safety: Status, Procedures, Policy & Ethical Concerns (SUN)*, 1st -3rd Feb, 2011, Indian Institute of Toxicology Research, Lucknow, India.
28. **Singh R**, Misra V, Singh RP - "Remediation of Cr(VI) contaminated soil by zero-valent iron nanoparticles entrapped in calcium alginate beads" at *International Conference on Environmental Science and Development (ICESD)*, 7th - 9th Jan, 2011, Mumbai, India.
29. **Singh R**, Misra V, Murthy RC - "Kinetic Investigation of Lindane dechlorination using Stabilized Bimetallic Nanoparticles" at *32nd session of Academy of Environmental Biology (AEB) and National Seminar on Emerging Pollutants and Pathogens: Challenges and Risk Reduction*, 20th – 22nd Sep 2012, Indian Institute of Toxicology Research, Lucknow, India.
30. **Singh R**, Misra V - "Effect of zero-valent iron nanoparticles and stabilized bimetallic nanoparticles on the degradation of γ -HCH" at *31st session of Academy of Environmental Biology (AEB) and National Symposium on Sustainable Development: Environment and Socio-Economic Challenges*, 14th - 16th Oct 2011, Bundelkhand University, Jhansi, India.
31. **Singh R**, Singh A, Sharma R, Misra V - "Assessment of soil with tannery wastes and its remediation using zero-valent iron nanoparticles (nZVI)" at *3rd National Conference on Nanomaterials and Nanotechnology*, 21st – 23rd Dec, 2010, Amity University, Lucknow Campus, Uttar Pradesh, India.

WORKSHOPS/REFRESHER/ORIENTATION COURSES ATTENDED

1. One-week Online Short-Term Course on Diversity and Inclusive Education in the Context of NEP 2020, MMTTC, Tezpur University, 11–18 June 2025
2. One-week Faculty Development Programme on Outcome-Based Curriculum Development, NITTR, Bhopal, 16–20 December 2024
3. One-week Faculty Development Programme on Training for Lab Development & Preparing Manuals, NITTR, Bhopal, 18–22 November 2024
4. One-week FDP on E-content Development, Teaching Learning Centre Ramanujan College, University of Delhi, 21-27 Aug, 2023
5. Twelve weeks NPTEL online Certification course on Physico-chemical processes for wastewater Treatment, IIT Roorkee, Jan-April 2022, **Highest score**
6. Two weeks Refresher Course in Environmental Science and Sustainable Development (Multidisciplinary), UGC-HRDC, University of Rajasthan, January 11-21, 2021, **A+ grade**

7. One-week FDP on Research Methodology and Optimization Techniques, AICTE Training And Learning (ATAL) Academy, Government Polytechnic Nashik, December 13-17, 2021
8. Integrated workshop on Publication Ethics and Patenting, Department of Energy and Environment, BBA University, Lucknow, 10th Feb 2020
9. GIAN course in "Researching Sustainability in the Built Environment", MHRD, Department of Architecture, Central University of Rajasthan, January 8-12, 2018.
10. Summer School, UGC-HRDC, University of Lucknow, June 15-July 5, 2017,
11. Orientation Course, UGC-ASC, University of Lucknow, July 2-31, 2014

EVENTS ORGANISED

1. Organizing Committee Member, National Conference on Women in Decision-Making and Leadership: Shattering Stereotypes and Creating Futures, organized by Women Cell, CURAJ, 3-4 Dec. 2024.
2. Coordinating Member, National Symposium on Startup and Entrepreneurship Strengthening Startup-Academia Collaborations, organized by Institute Innovation Council Innovation and Startup Cell, CURAJ Incubation Foundation, 4-5 Oct 2024.
3. Organizing Committee Member, SPARC Workshop on Catalysis for Energy and Environment Technology 2024, organized by Department of Physics, CURAJ, 9-13 Sep 2024.
4. Convener, Community Awareness Workshop on Floating Treatment Wetland Systems (FTWS) to Enhance Lake water quality, organized by Department of Environmental Science, SES, CURAJ, 17 May 2024
5. Organizing Secretary, Final Workshop of the Multi-Country Collaborative Research on Floating Treatment Wetland System (FTWS), organized by Department of Environmental Science, SES, CURAJ, 22-23 Feb 2024
6. Organizing Secretary, Policy workshop on Floating Treatment Wetland System (FTWS) for remediation of surface waterbodies, organized by Department of Environmental Science, 31 Jan 2024.
7. Organizing Secretary, One day Community Awareness Workshop on Floating Treatment Wetland System (FTWS) for remediation of surface waterbodies, organized by Department of Environmental Science, SES, CURAJ, 31st Oct 2023.
8. Co-ordinator, 26th National Wild Life Week, Recovering Key Species for Ecosystem Restoration, organized by School of Earth Sciences, CURAJ 2nd-8th Oct 2022.
9. Co-ordinator, National Moth Week, organized by Department of Environmental Science, SES, CURAJ, 23-31 July 22.
10. Committee Member, Youth Development Program with support of RGNIYD, organized by Department of Environmental Science, SES, CURAJ, 14-15 March 2022.
11. National Science Day – Department Representative for poster presentation, science model exhibition, quiz paper, rapid presentation, 28 Feb, 2020.
12. Local organizing committee member- International Workshop on AsiaPEX/South Asia (SA), organized by Department of Atmospheric Science, SES, CURAJ, 1-2 March, 2020.
13. Local organizing committee member- 2nd International Workshop on ESSDMS, organized by Department of Atmospheric Science, SES, CURAJ, 27-29 Feb 2020.
14. Local organizing committee member, SERB school on NUMCLOUDS, organized by Department of Atmospheric Science, SES, CURAJ, Feb 11-23, 2019.
15. Member, VI Rajasthan Science Congress (RSC), organized by Central University of Rajasthan 13-15 Oct 2018.
16. Sub- Committee Member, National Science Day, 2019.
17. Kabaddi coordinator in 11th foundation day- sports event, 2019.
18. Coordinated Educational Field Trip, 2019.
19. Felicitor, CURAJ NCW National Seminar, March 27-28, 2018.

20. Organizing committee member, Three days training programme on Geospatial Technologies, organized by Department of Environmental Science, Central University of Rajasthan, supported by NRDMS, DST, New Delhi 18-20 Feb. 2017.
21. Event Coordinator, World Ozone Day, 16 Sep, 2017.
22. Event Coordinator, Wild Life Week celebration- WILD ARK 2k17, 2-8 Oct 2017.
23. Students' Council Election coordinator 2017
24. Assisted in organizing International Workshop on Climate Change Impacts and Societal Adaptation Collaborative Workshop by Central University of Rajasthan (India) and Swedish Meteorological And Hydrological Institute (Sweden), 6-8 Nov. 2013.
25. Registration Committee Member - X International Conference of Indian Society for Theatre Research (In association with International Federation for Theatre Research) organized by Department of Culture and Media Studies, Central University of Rajasthan, 8-11 Jan 2014.

MEMBERSHIP IN ACADEMIC AND PROFESSIONAL ASSOCIATIONS

- The Society for Science of Climate Change and Sustainable Development (Life Member)
- Prof. H.S. Srivastava Foundation for Science and Society (Life Member)
- Academy of Environmental Biology (Life Member)
- Indian Women Scientists' Association (Life Member)