CURRICULUM VITAE

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Teaching/Research Experienced:

- Presently working as **Assistant Professor, Department of Environmental Sciences**, J.C. Bose University of Science and Technology, YMCA, Faridabad-121006, Haryana, India. (**31/01/2020 to Present**)
- Worked as a **Kothari Post-Doctoral Fellow- (UGC, New Delhi)** at Central University of Punjab, Bhatinda, India (01/04/2019 to 30/01/2020).
- Worked as a **Junior Research Fellow** in the project titled "*Rn/Th and Gamma-Radiation Levels Quantification in Four Districts of Haryana (Sirsa, Fatehabad, Hisar and Bhiwani)*" at Guru Jambheshwar University of Science & Technology, Hisar (India) (project funded by BRNS, Mumbai) (12/10/2018 to 31/03/2019).

Academic Qualification:

- **Dr. D.S. Kothari Post-Doctoral Fellow"** in the Department of Environmental Science and Technology, Central University of Punjab, Bhatinda (India) from April 2019 to January 2020.
- **Ph.D.** in Environmental Science and Engineering from Guru Jambheshwar University of Science & Technology, Hisar (India) in 2018. Ph.D Thesis title "**Removal of heavy metals and dyes from aqueous solution by Nanoparticles**" [Supervisor: Prof. V.K. Garg]
- **M.Sc.** in Environmental Science from Guru Jambheshwar University of Science & Technology, Hisar (India) in 2012.
- **B.Sc.** with Chemistry, Botany, and Environmental Science from Kurukshetra University, Kurukshetra (India) in 2010.

Awards/Fellowships/Achievements:

- Received **NESA SCIENTIST OF THE YEAR AWARD-2023** for Outstanding contribution in Environmental sciences research by National Environmental Science Academy, New Delhi at CSIR-NBRI, Lucknow in 16th December, 2023.

- Received **Best Counsellor Award** by Haryana State Red Cross in state-level youth Red Cross Camp at Manali, June, 2023
- Received **Academic Achievement award** for Outstanding Contribution in the University given by JC Bose University, YMCA, Faridabad, 2021
- Awarded **Dr. D.S. Kothari Postdoctoral Fellowship"** by UGC, New Delhi in April 2019.
- Awarded **UGC-NET and JRF** by UGC, New Delhi in June 2012.
- Awarded **Best Paper Presentation** for a research paper presented at the National Conference at YMCA University of Science and Technology, Faridabad.

Area of Interests:

- ✓ Environmental pollution monitoring and remediation
- ✓ Environmental Nanotechnology and its applications in water treatment
- ✓ Microplastic Pollution
- ✓ Green and sustainable materials and technologies
- ✓ Constructed Wetland for water treatment
- ✓ Uranium pollution monitoring and control

Membership of Professional Bodies:

- ✓ **Life Membership** of Indian Science Congress Association, India (LN41269)
- ✓ **Life Membership** of National Environmental Science Academy, New Delhi (L/M No. 2376)

Official Duties in the University:

- ✓ **YRC Programme Coordinator** of Youth Red Cross Cell in the University
- ✓ **Deputy Proctor** at the university
- ✓ **Committee Member** of the IQAC cell coordinates NAAC Criteria 7 in the university
- ✓ **Faculty Coordinator** of Social Responsibilities Activities cell (DSW)
- ✓ **Committee Member** of Central Instrumental Laboratory (CIL)
- ✓ **Committee Member** of the Proctor Committee and Anti-Ragging cell in the university
- ✓ **Member** of the BOS of the Centre for Energy Studies.
- ✓ **Committee Member** of the Guest House/Hospitality committee at the university.
- ✓ **Member,** BOF of the Faculty of Sciences.
- ✓ **Deputy Superintendent (DS)** in affiliated colleges' examination.
- ✓ **Member,** Scrutiny Committee of Assistant Professor application form

Official Duties/Contribution in the Departments:

- ✓ **Coordinator and Member** of the curriculum revision workshop for M.Sc. Env. Sciences.
- ✓ **SMARTH Portal Coordinator** in the department**.**
- ✓ **PG dissertation Coordinator** (from 2020 to present)
- ✓ **Research and Ph.D. Coordinator** in the department
- ✓ **Member,** DRC, and BOS in the department
- ✓ **CBCS Co-coordinator** in the department
- ✓ **Committee Member** of the Department Purchase Committee (DPC).
- ✓ **Lab In-charge:** Advanced Instrumentation Lab, and Research Lab
- ✓ **Lab In-charge:** Water, and soil Quality Lab of M.Sc. EVS in the Department

Research Projects/Grants:

Project Title	PI/Co-PI	Funding Agency	Grant (in Rs)	Status
Preparation of Green Nanomaterials for the removal of emerging contaminants (Phenol and Bisphenol -A) from water	PI	Seed Grant (J.C. Bose University)	2 Lakh	Completed
Development of eco-friendly nanomaterials for the removal of pharmaceuticals from the water stream	PI	UGC Start-up (UGC, New Delhi)	10 Lakh	Completed

Consultancy Project:

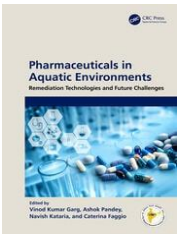
Consultancy Work	Consulting Firms/Company	Amount (in Rs)	Duration
Conduct Training & Awareness on Environment, Climate Change, and Smart Agriculture in Biomass to Energy Plants in Punjab, Haryana & Rajasthan	SAEL Ltd., New Delhi.	3.11 Lakh	2025-2026 (In progress)

Editorial Experience:

- **Guest Editor:** recognition from the "**Environmental Research**" journal **(Elsevier) IF-8.4.**
- **Review Editor**: "***Frontiers in Environmental Chemistry***" (Section: Sorption Technologies)
- **Guest editor:** Call for Papers: Special Issue in ***ESPR*** (**Springer Journal**) **Impact Factor-5.8.**
- **Editorial** Carbon-based nanomaterials: systematic enumeration and proficient template for detection and remediation of hazardous pollutants. 30(60), 124829-124831.
  Journal: *Environmental Science and Pollution Research*, (Springer Journal)
  Editors: **N., Kataria**, V.K., Garg, P., Kumar, C., Han, I., Anastopoulos, & S., Kumar, (2023).

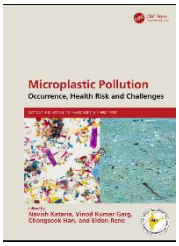
Book Published:

Pharmaceuticals in Aquatic Environment: Toxicity, Monitoring and Remediation Technologies" Part -I (**Published in 2023).**
CRC Press book. Boca Raton, Florida, United States
Editors: V.K. Garg, Ashok Pandey, **Navish Kataria** & Caterina Faggio
https://doi.org/10.1201/9781003361091



Pharmaceuticals in Aquatic Environment: Remediation Technologies and Future Challenges*"* Part -II (**Published in 2023).**
CRC Press book. Boca Raton, Florida, United States
Editors: V.K. Garg, Ashok Pandey, **Navish Kataria** & Caterina Faggio
https://doi.org/10.1201/9781003436607

Bioeconomy for Sustainability" (**Published in 2024).**
Springer Nature Singapore Pvt. Ltd. Gateway East, Singapore
Editors: V.K. Garg and **Navish Kataria**.
https://doi.org/10.1007/978-981-97-1837-5



Microplastics Pollution: Occurrence, Health Risk and Challenges
(**Published in 2025).**
CRC Press book. Boca Raton, Florida, United States
Editors: ***Navish Kataria,*** *V.K. Garg, Eldon Raj Rene & Changseok Han*
https://doi.org/10.1201/9781032706573

Sustainable Biomanufacturing: Innovations for a Circular Bioeconomy and Industry 5.0 (**in production 2026).**
CRC Press book. Boca Raton, Florida, United States
Editors: ***Navish Kataria,*** *V.K. Garg,* Ashok Pandey

Green Nanotechnology for Sustainable Water Treatment
(**in progress 2025).**
CRC Press book. Boca Raton, Florida, United States
Editors: ***Navish Kataria*** *and V.K. Garg*

Reviewer in Reputed International Journals:

- Chemosphere (*Elsevier*)
- Chemical Engineering Journal (*Elsevier*)
- Journal of Environmental Management (*Elsevier*)
- Science of Total Environment (*Elsevier*)
- Environmental Research (*Elsevier*)

- Journal of Hazardous materials (*Elsevier*)
- Journal of Hazardous materials advances (*Elsevier*)
- Fuel (*Elsevier*)
- Energy Nexus (*Elsevier*)
- Environmental Pollution (*Elsevier*)
- Case Studies in Chemical and Environmental Engineering *(Elsevier*)
- Environmental Technology & Innovation *(Elsevier*)
- Journal of the Taiwan Institute of Chemical Engineers *(Elsevier*)
- Journal of Environmental Chemical Engineering *(Elsevier*)
- Scientific Report (*Springer Nature*)
- Environmental Processes (*Springer Nature*)
- Environmental Geochemistry and Health (*Springer*)
- Environmental Monitoring and Assessment (*Springer*)
- Ionic (*Springer*)
- Adsorption (*Springer*)
- Journal of Cluster Science (*Springer*)
- Rendiconti Lincei (*Springer*)
- International Journal of Sustainable Engineering (*Taylor & Francis*)
- Reviews on Environmental Health (*De Gruyter*)
- Sustainability (*MPDI*)
- Water (*MPDI*)
- Environmental Sustainability (Springer)

Research Guidance:

PhD Scholar	PhD Title	Supervisor/ Co-supervisor	Status
Ms. Sapana	Synthesis and Characterization of MgO-based Nanocomposites for Potential Applications	Co-Supervisor	Awarded (2025)
Ms. Himani Sabharwal (UGC-NET/NFSC)	Development of Eco-Friendly Nanomaterials and their Potential Application in the Removal of Pharmaceuticals from the water	Supervisor	In Progress
Ms. Divya (UGC-NET)	Potential application of carbon-based materials for the removal of emerging pollutants from water	Co-Supervisor	In Progress
Ms. Mohini	Potential Application of biochar embedded constructed wetland for Pharmaceutical Wastewater Treatment	Supervisor	In Progress
Mr. Mukul Chouhan (UGC-NET/JRF)	----------	Supervisor	In Progress

Research profile:

Total Research Article **:56** (International/National Journals)
Book Chapter **:14** (Elsevier, CRC Press and RSC books)

CRC Press Book :03 Published and 02 in Progress
Springer Book :01 Published

- **Google Scholar Citation: 3247; H-index = 31**

Google Scholar ID: Navish Kataria-Google Scholar

- **Scopus Citation: 2756; H-index = 30**

Scopus ID: Navish Kataria - Scopus

- **Web of Science Citation: 2134; H-index = 27**

Web of Science ID: Navish Kataria -Web of Science

Research Articles Published in Peer-Reviewed Journals:

In 2026

1. N., Singh, S., Rayhan, A., Panghal, R., Dhiman, **N., Kataria,** S., Kumar, R., Singh, B., Singh, L., Saini (2025). Risk Assessment of Uranium in Groundwater Surrounding the Greater Noida Industrial Area, Uttar Pradesh, India. ***Applied Radiation and Isotopes***, 229, 112376. (**Elsevier;** ISSN: 1872-9800) (**I.F – 1.8**). https://doi.org/10.1016/j.apradiso.2025.112376.

In 2025

2. A. Mittal, J. Ram, G. Malik, Abhishek, **N. Kataria,** & Amanjeet (2025). Estimation and Risk Assessment of Natural Uranium Radioactivity in the Yamuna River Water, Delhi Using LED Fluorimetry and Biokinetic Modelling. ***Indian Journal of Pure & Applied Physics*** *(IJPAP)*, 63 (12), 1160-1169 (**CSIR-NIScPR;** ISSN: 0975-1041) (**IF- 1.10**) https://doi.org/10.56042/ijpap.v63i12.23441.
3. M. Samani, Y.K. Ahlawat, S Yadav, M. Feizi, M. R. Rashti, A. Mohseni, C. Prakash, S. Ghotekar, **N. Kataria*** (2025). Micro and nano plastics (MNPs) in agricultural soils: challenges for food security and environmental health. ***Environmental Monitoring and Assessment***, *197*,1369. [**Springer;** ISSN: 1573-2959] **IF- 3.0**). https://doi.org/10.1007/s10661-025-14810-z.
4. S., Kumar, S., Kansal, V., Duggal, V., & **N., Kataria** (2025). Assessment of uranium levels and associated health risks in drinking water from various aquifers in northeastern Rajasthan, India. ***Isotopes in Environmental and Health Studies***, 1–18. [**Taylor & Francis;** ISSN: 1477-2639] (**IF- 1.4**). https://doi.org/10.1080/10256016.2025.2570360
5. S., Mayilswami, N.P., Raval, R., Tomar, S., Sharma, S.M., Praveena, **N., Kataria**, R., Selvasembian, S.R., Shanmugam, R., Nath, A., Malakar, S., Dutta and S., Mukherjee (2025). Potential human health effects of per-and polyfluoroalkyl substances (PFAS)

prevalent in aquatic environment: a review. ***Environmental Science: Advances***. 4, 1939–1962. [**RSC;** ISSN: 2754-7000] (**IF- 4.4**). https://doi.org/10.1039/D4VA00405A

6. H., Sabherwal, R., Kumar, S., Ghotekar, C., Mohan, **N., Kataria,**** (2025). Bioengineering of iron oxide nanoparticles using leaves extract of Dalbergia sissoo for the removal of diclofenac and tetracycline from water: optimization by BBD approach. ***Environmental Geochemistry and Health***, *47*(9), 1-23. [**Springer;** ISSN: 1573-2983] (**IF- 3.8**). https://doi.org/10.1007/s10653-025-02674-8.
7. A. A., Ramandani, N., Rachmadona, H.S.H., Munawaroh, J.C.W., Lan, N., Kataria, & K.S., Khoo, (2025). Sustaining Food Waste for Energy Conversion: A Mini Review. ***Green Energy and Fuel Research***, *2*(1), 34–47. [**Scilight;** ISSN: 2982-2106] https://doi.org/10.53941/gefr.2025.100004
8. B., Arora, D., Dhillayan, S., Yadav, S., Ghotekar, S., Mukherjee, C., Mohan, **N., Kataria,**** (2025). Bio-fabrication of acid-treated and magnetic biochar from rice straw for tetracycline removal from water: response surface methodology study, reusability, and modelling. ***Biomass Conversion and Biorefinery***, 1-16. [**Springer;** ISSN: 2190-6815] (**IF- 4.0**). https://doi.org/10.1007/s13399-024-06438-9
9. S. Ghotekar, S.R. Mishra, V. Gadore, S. Roy, Md Ahmaruzzaman, K.R.B. Singh, J. Singh, A. Kumar, **N. Kataria**, M. Mirzaei (2025). Insights into the expeditious photocatalytic performance of greenly fabricated $CeVO_4$ nanoparticles using Polyalthia longifolia leaf extract. ***Inorganic Chemistry Communications***, 172, 113665. **.[Elsevier;** ISSN: 1387-7003] (**IF- 5.2**).

In 2024

10. Garima, Babita, Amanjeet, N., Kataria, A., Bhardwaj, R., Dhiman, R., & S., Chaudhary, (2024). Risk assessment of uranium in water sources near coal mines and in human organs of Shahdol District, Madhya Pradesh, using biokinetic modelling. ***Environmental Geochemistry and Health***, *46*(12), 513. [**Springer;** ISSN: 1573-2983] (**IF- 3.8**). https://doi.org/10.1007/s10653-024-02294-8
11. S., Yadav, S., Chander, A., Gupta, **N., Kataria**,** & K. S. Khoo, (2024). Biogenic engineered zinc oxide nanoparticle for sulfur black dye removal from contaminated wastewater: comparative optimization, simulation modeling, and isotherms. ***Bioengineered***, 15(1), 2325721. [**Taylor & Francis;** ISSN: 2165-5979] (**IF- 4.9**). https://doi.org/10.1080/21655979.2024.2325721
12. N. Narwal, M.A. Kakakhel, D. Katyal, S. Yadav, P.K. Rose, E.R. Rene, Md.R.J. Rakib, K.S. Khoo & **N. Kataria**** (2024) Interactions Between Microplastic and Heavy Metals in

the Aquatic Environment: Implications for Toxicity and Mitigation Strategies. ***Water Air & Soil Pollution*** 235, 567 [**Springer;** ISSN: 1573-2932] (**IF- 3.8**). https://doi.org/10.1007/s1127 0-024-07343-7

13. R., Dhaka, S., Kumar, **N., Kataria,** P. E., Kee, R., Ayyamperumal, B., Ethiraj,... & R., Bhateria, (2024). Biosorption of lead (II) ions by lead-tolerant fungal biomass isolated from electroplating industry effluent. ***International Journal of Environmental Science and Technology***, 1-12. [**Springer;** ISSN: 1735-2630] (**IF- 3.0**). https://doi.org/10.1007/s13762-024-05796-1
14. A., Kumari, B., Hooda, A., Panghal, **N., Kataria**, R., Dhiman, R., Dalal, & S., Kumar (2024). Uranium concentration in groundwater of Charkhi Dadri district of Haryana, India by using LED fluorimeter. ***Journal of Radioanalytical and Nuclear Chemistry***, 333, 5823–5829. [**Springer;** ISSN: 1588-2780] (**IF- 1.6**). https://doi.org/10.1007/s10967-024-09531-5.
15. R., Dhiman, B., Khyalia, N., Kumar, S., Kumar, **N., Kataria,** R., Kumar, S., Budhwar & R., Dalal, (2024). Investigation of radiation dose-dependent risk on individuals due to drinking water ingestion in Yamunanagar District, India. ***Journal of Radioanalytical and Nuclear Chemistry***, 333, 3279–3289. [**Springer;** ISSN: 1588-2780] (**IF- 1.6**). https://doi.org/10.1007/s10967-024-09387-9
16. J., Yadav, B., Khyalia, N., Kumar, A., Panghal, P.P., Singh, S., Devi, N., Kataria, P., Singh & R., Dalal (2024). Assessment of natural radioactivity in soil and water in the upper Himalayas region along the Manali–Leh highway, India. ***Journal of Radioanalytical and Nuclear Chemistry*** 333, 3075–3086 [**Springer;** ISSN: 1588-2780] (**IF- 1.6**) https://doi.org/10.1007/s10967-023-09196-6
17. S., Rani, P., Kumar, & **N., Kataria*,** (2024).Development of chemically and green synthesized MgO nanoparticles for CR and BG dye adsorption from single and binary aqueous systems. ***Journal of the Taiwan Institute of Chemical Engineers,*** 166, 105566.[**Elsevier;** ISSN: 1876-1089] (**IF- 5.7**). https://doi.org/10.1016/j.jtice.2024.105566
18. **N., Kataria**, S., Yadav, V.K., Garg, E.R., Rene, J.J., Jiang, P.K., Rose, M, Kumar, & K.S., Khoo, (2024). Occurrence, transport, and toxicity of microplastics in tropical food chains: perspectives view and way forward. ***Environmental Geochemistry and Health***, 46(3), 1-36. [**Springer;** ISSN: 1573-2983] (**IF- 4.2**) https://doi.org/10.1007/s10653-024-01862-2
19. S., Rani, H., Sabharwal, P., Kumar, A.K., Chauhan, K.S., Khoo, & **N., Kataria**,** (2024). Comparative behaviour of carbon-based materials for the removal of emerging bisphenol A from water: adsorption modelling and mechanism. ***Groundwater for Sustainable Development,*** 25, 101121. [**Elsevier;** ISSN: 2352-801X] (**IF- 5.9**). https://doi.org/10.1016/j .gsd.2024.101121

In 2023

20. K.F., Chang, P.K., Panda, C.T., Hsieh, P.C., Yang, **N., Kataria**, K.S. Khoo, (2023). Solid-State Lithium Batteries with Cathode-Supported Composite Solid Electrolytes Enabling High-Rate Capability and Excellent Cyclic Performance. ***Batteries*** [**MDPI;** EISSN 2313-0105] (**IF- 4.0**). https://doi.org/10.3390/batteries9100490
21. P.K., Rose, V., Poonia, R., Kumar, **N., Kataria**, P., Sharma, J., Lamba, & P., Bhattacharya, (2023). Congo red dye removal using modified banana leaves: Adsorption equilibrium, kinetics, and reusability analysis. ***Groundwater for Sustainable Development,*** 23, 101005. [**Elsevier;** ISSN: 2352-801X] (**IF- 5.9**). https://doi.org/10.1016/j.gsd.2023.101005
22. P.K., Rose, S., Yadav, **N., Kataria** &** K.S., Khoo, (2023). Microplastics and nanoplastics in the terrestrial food chain: Uptake, translocation, trophic transfer, ecotoxicology, and human health risk. ***TrAC Trends in Analytical Chemistry***, 167, 117249. (**Elsevier;** ISSN: 0013-9351) (**I.F – 13.1**). https://doi.org/10.1016/j.trac.2023.11724
23. N., Narwal, D., Katyal, **N., Kataria**,** P.K., Rose, S.G., Warkar, A., Pugazhendhi, & K.S., Khoo, (2023). Emerging micropollutants in aquatic ecosystems and nanotechnology-based removal alternatives: A review. ***Chemosphere***, 341, 139945. [**Elsevier;** ISSN: 0045-6535] (**IF– 8.8**). https://doi.org/10.1016/j.chemosphere.2023.139945.
24. M. A., Kakakhel, N., Narwal, **N., Kataria,** S. A., Johari, S.Z.U., Din, Z., Jiang, ... & S., Xiaotao, (2023). Deciphering the dysbiosis caused in the fish microbiota by emerging contaminants and its mitigation strategies-A review. ***Environmental Research,*** 117002. (**Elsevier;** ISSN: 0013-9351) (**I.F – 8.3**). https://doi.org/10.1016/j.envres.2023.117002.
25. K Chahal, S Kumar, S Budhwar, R Dalal, A Panghal, **N Kataria** (2023). Assessment of radiological risks and chemical toxicity due to exposure of uranium in water samples of district Mahendergarh Haryana, India. ***Indian Journal of Pure & Applied Physics (IJPAP),*** *61*(12), 976-983. (CSIR-NIScPR; ISSN: 0975-1041) (**IF- 1.10**) https://doi.org/10.56042/ijpap.v61i12.4372.
26. A Kumari, A Panghal, B Singh, **N Kataria**, R Dhiman, S Rani, R Singh. (2023). Analysis of Natural Uranium in Groundwater of Jhajjar District of Haryana, India using LED Fluorimeter. ***Indian Journal of Pure & Applied Physics (IJPAP),*** *61*(11), 934-937. (CSIR-NIScPR; ISSN: 0975-1041) (**IF- 1.10**) https://doi.org/10.56042/ijpap.v61i11.3364.
27. B., Khyalia, N., Kumar, R., Beniwal, A., Panghal, N., Kataria, P., Gautam, & R., Dalal, (2023). Assessment of Age-Dependent Radiation Dose and Toxicological Risk of Uranium in Ground Water around Uranium Mines in Sikar, Rajasthan. ***Indian Journal of Pure & Applied Physics (IJPAP)***, 61(10), 874-885 (CSIR-NIScPR; ISSN: 0975-1041) (**IF- 1.10**). https://doi.org/10.56042/ijpap.v61i10.2690

28. Y., Mago, Sharma, Y., Thakran, A., Mishra, S., Tewari, & **N., Kataria**,** (2023). Next-Generation Organic Beauty Products Obtained from Algal Secondary Metabolites: A Sustainable Development in Cosmeceutical Industries. ***Molecular Biotechnology***, 1-21. [**Springer;** ISSN: 1559-0305) (**I.F – 2.6**). https://doi.org/10.1007/s12033-023-00841-9
29. A., Malik, D., Katyal, N., Narwal, **N., Kataria,** R., Ayyamperumal, & K.S. Khoo, (2023). Sources, distribution, associated health risks and remedial technologies for inorganic contamination in groundwater: A review in specific context of the state of Haryana, India. ***Environmental Research,*** 116696. (**Elsevier;** ISSN: 0013-9351) (**I.F – 8.4**). https://doi.org/10.1016/j.envres.2023.116696
30. K., Singh, R.K., Lohchab, H., Aguedal, G., Goel, & **N., Kataria,** (2023). Optimizing leachate treatment with titanium oxide-impregnated activated carbon (TiO_2@ ASC) in a fixed-bed column: characterization, modeling, and prediction study. ***Environmental Science and Pollution Research,*** 30, 88450-88462 **[Springer;** ISSN: 1614-7499] (**IF-5.8**). https://doi.org/10.1007/s11356-023-28647-x
31. P., Singh, Arpita, S., Kumar, P., Kumar, **N., Kataria,** K.S. Khoo, C.T., Hsieh, (2023). Assessing biomass-derived carbon dots as highly sensitive and selective template for sensing of hazardous ions. ***Nanoscale.*** 15, 16241-16267 **[RSC;** ISSN: 2040-3372**] (IF-7.3).** https://doi.org/10.1039/D3NR01966G
32. Arpita, P. Kumar, **N. Kataria**, N. Narwal, S. Kumar, R. Kumar, K.S. Khoo, P.L. Show, (2023). Plastic Waste-Derived Carbon Dots: Insights of Recycling Valuable Materials Towards Environmental Sustainability. ***Current Pollution Reports***, 9, 433-453. **[Springer;** ISSN: 2198-6592] **(IF-8.1).** https://doi.org/10.1007/s40726-023-00268-5
33. P. Singh, N. Rani, S. Kumar, P. Kumar, B. Mohan, V. Bhankar, **N. Kataria**, R. Kumar, K. Kumar (2023). Assessing the biomass-based carbon dots and their composites for photocatalytic treatment of wastewater. ***Journal of Cleaner Production,*** 413, 137474. **[Elsevier;** ISSN: 1879-1786] **(IF- 11.0).** https://doi.org/10.1016/j.jclepro.2023.137474
34. F. Hassan, K.D. Prasetya, J.N. Hanun, H.M. Bui, S. Rajenderan, **N. Kataria**, K.S. Khoo, Y.F. Wang, S.J. You, J.J. Jiang (2023). Microplastic contamination in sewage sludge: Abundance, characteristics, and impacts on the environment and human health. ***Environmental Technology & Innovation,*** 31, 103176. **[Elsevier;** ISSN: 2352-1864] **(IF-7.7).** https://doi.org/10.1016/j.eti.2023.103176
35. S. Yadav, **N. Kataria****, P. Khyalia, P.K. Rose, S. Mukherjee, H., Sabherwal, W.S. Chai, S. Rajendran, J.J.J Jiang, K.S. Khoo, (2023) Recent analytical techniques and eco-toxicological impacts of textile fibrous microplastics (FMPs) and its associated

contaminates: a review. ***Chemosphere,*** 326, 138495 [**Elsevier;** ISSN: 0045-6535] (**IF–8.9**). https://doi.org/10.1016/j.chemosphere.2023.138495

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37. K. Pagar, K. Chavan, S. Kasav, P. Basnet, A. Rahdar, **N. Kataria**, R. Oza, Y. Abhale, B. Ravindran, O. Pardeshi, S. Pawar, B. Pagar, S. Ghotekar (2023). Bio-inspired synthesis of CdO nanoparticles using Citrus limetta peel extract and their diverse biomedical applications. ***Journal of Drug Delivery Science and Technology,*** 82, 104373 [**Elsevier;** ISSN: 2588-8943] **(IF- 5.1).** https://doi.org/10.1016/j.jddst.2023.104373
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44. S. S. Kumar, P. Ghosh, **N. Kataria**, D. Kumar, S. Thakur, D. Pathania, and L. Singh, (2021). The role of conductive nanoparticles in anaerobic digestion: Mechanism, current status, and future perspectives. ***Chemosphere,*** 280, 130601. [**Elsevier;** ISSN: 0045-6535] (**IF– 8.9**).

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54. J. Saini, V.K. Garg, R.K. Gupta, **N. Kataria,** (2017) Removal of Orange G and Rhodamine B dyes from aqueous system using hydrothermally synthesized zinc oxide loaded activated carbon (ZnO-AC) ***Journal of Environmental Chemical Engineering*** 5 (1), 884–892**. [Elsevier;** ISSN: 2213-3437**] (IF- 7.9).**

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55. **N. Kataria**, V.K. Garg, M. Jain, K. Kadirvelu, (2016). Preparation, characterization, and potential use of flower shaped Zinc oxide nanoparticles (ZON) for the adsorption of Victoria Blue B dye from aqueous solution, ***Advanced Powder Technology*** 27, 1180–1188. [**Elsevier;** ISSN: 0921-8831] **(I.F – 4.9).**
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Book chapter:

1. P.K., Rose, N., Narwal, R., Kumar, **N., Kataria**, S., Yadav, K.S. Khoo (2025) Chapter 15: Microbial degradation of plastic polymers: organism diversity, mechanism and influencing factors perspective. In Edited Book: *Microplastic Pollution: Occurrence, Health Risk and Challenges* ***CRC Press***
2. S., Yadav, **N., Kataria**, J.W.R., Chong, P.K. Rose, S., Joshi, P.L., Show, K.S., Khoo (2025) Chapter 13: Uptake, accumulation and ecotoxicological impacts of microplastic on plant production and soil ecosystem. In Edited Book: *Microplastic Pollution: Occurrence, Health Risk and Challenges* ***CRC Press***
3. S., Yadav, **N., Kataria**, (2025) Chapter 1: Microplastics in the environment: An introduction In Edited Book: *Microplastic Pollution: Occurrence, Health Risk and Challenges.* **CRC Press**

4. N., Narwal, D., Katyal, A., Malik, **N., Kataria**, A.K., Bhardwaj, M.R.J., Rakib, & M.A., Kakakhel, (2024). Sustainable advances in the synthesis of waste-derived value-added metal nanoparticles and their applications. In Edited Book: *Green and Sustainable Approaches Using Wastes for the Production of Multifunctional Nanomaterials* (pp. 17-33). ***Elsevier B.V.***
5. N., Narwal, D., Katyal, **N., Kataria**, (2023). Biomaterials and Eco-Friendly Materials for the Sequestration of Pharmaceuticals from Contaminated Water. In Edited Book: *Pharmaceuticals in Aquatic Environments* (pp. 39-64). ***CRC Press.***
6. P.K., Rose, **N., Kataria**, K.S., Khoo, N., Narwal, S.B., Dhull, R., Kumar, S., Rani, P., Kumar (2023). Pristine and Modified Biochar for Pharmaceuticals Removal from Aquatic Systems In Edited Book: *Pharmaceuticals in Aquatic Environments* (pp. 145-172). ***CRC Press.***
7. **N., Kataria*,** S., Yadav, P.K., Rose, V.K., Garg, (2023). Pharmaceutical Contamination in Water and Wastewater: Remediation Technology and Future Challenges In Edited Book: *Pharmaceuticals in Aquatic Environments* (pp. 1-20). ***CRC Press .***
8. D., Dhillayan, H., Sabherwal, **N., Kataria,** & V.K., Garg, (2023). Pharmaceuticals in the Aquatic Environment: Introduction. In Edited Book: *Pharmaceuticals in Aquatic Environments* (pp. 1-12). ***CRC Press.***
9. A., Sharma, A.K. Chauhan, V.K., Garg, **N. Kataria*** (2023). Hybrid nanomaterial for removal of organic pollutants from wastewater. *In Edited Book: Hybrid Nanomaterials for Sustainable Applications.* (pp. 71-102) ***Elsevier B.V.***
10. R. Gupta, H. Chauhan, V.K Garg, **N. Kataria*** (2022) Chemical and Physical properties of Nanoparticles and Hybrid materials In Edited Book: *Sustainable nanotechnology for Environmental Remediation* (pp. 199-220) ***Elsevier B.V.***
11. S. Yadav, A.K. Chauhan, S. Kumar, **N. Kataria*** (2022) Advanced membrane technology for the removal of pesticides from water and wastewater, In Edited Book: *Pesticide's remediation technologies from water and wastewater: Health effects and environmental remediation*, (pp. 143-156) ***Elsevier B.V.***
12. H. Sabherwal, A. Tewatia, S.S. Kumar, M. Singh, **N. Kataria*** (2021). Metal− Organic Frameworks for Capturing Carbon Dioxide from Flue Gas. In Edited Book: *Metal− Organic Frameworks for Carbon Capture and Energy* (pp. 355-391). ***American Chemical Society (ACS).***
13. S., Rani, & **N., Kataria*** (2021). Metal− Organic Framework and Its Nanocomposites as Chemical Sensors. In Edited Book: *Metal− Organic Frameworks for Environmental Sensing* (pp. 83-124). ***American Chemical Society (ACS).***

14. V.K. Garg, **N. Kataria**, (2016) Nanomaterial-Based Sorbents for the Removal of Heavy Metal Ions from Water. In Edited Book: *Advanced Nanomaterials for Wastewater Remediation.* ***CRC Press, Taylor & Francis Group*****.** (pp. 179–200). Boca Raton, Florida (USA) (Print ISBN: 978-1-4987-5333-3).

Contribution in Conferences/seminar/workshops:

- **Member of Organizing Team** of One Day Online International Webinar on "Science and Engineering for Nature Conservation" held on World Environment Day - 5th June, 2020 in Department of Environmental Sciences, JCBUST, YMCA.
- **Member of Organizing Committee and Session Coordinator** of National e-Conference on "Re-establishment of Bharatiyata in Present Era" held on dated August 08-09, 2020 at J.C. Bose University of Science & Technology, YMCA, Faridabad.
- **Member of Organizing Team** of National Conference on 'Role of Indian Scientists in Sustainable Development organized on National Science Day Celebrations by the Faculty of Sciences held on 28th Feb.-1st March, 2021.
- **Faculty Coordinator** One-Week Faculty Development Programme on "Green Technologies and Environmental Sustainability (GTES-2020)" organized J.C. Bose University of Science & Technology, YMCA, Faridabad from September 7-12, 2020.
- **Faculty Coordinator** in National Conference on "Advances in Civil Engineering and Environmental Sciences" (ACEES-2021) organized in J.C. Bose University of Science & Technology, YMCA, Faridabad from January 14-15, 2021.
- **Members of Organizing Secretary** in the National Conference on OZONE LAYER, ITS DEPLETION AND IMPACT ON LIVING BEINGS (ODIL 2024) held on 16-17 September, 2024 at ICAR-National Research Centre on Camel, Bikaner (Rajasthan).

Invited Talk/Resource Person/Session chair:

- Delivered **Invited Talk** in National Conference on "Recent Advances in Materials and Nanotechnology" (RAMAN-2023) from April 7-8, 2023 at DIT University, Dehradun (India).
- Delivered Lecture as a **Resource Person** in a One-day workshop on "Best Out of Waste" on January 23rd, 2023, organized by Aggarwal College, Ballabgarh, Faridabad, (India)
- Delivered Lecture as a **Resource Person** in a one-week District level Youth Red Cross Camp from February 20 to 28, 2023, organized by JC Bose University, Faridabad, YMCA and District Red Cross, Faridabad.
- Delivered **Oral Presentation** on "*Green Chemistry approach for sustainable water treatment"* in the National Conference on "Recent Trend and Challenges in Green

Chemistry, Pollution Control and Climate Changes [GPCC-2023] from December 14-16, 2023, organized by DIT University, Dehradun (India)

- Delivered a talk as a **Speaker** on the "History of Red Cross" on the occasion of World Red Cross Day-2024 on 8th May 2024, organized by JC Bose University, Faridabad, YMCA, Faridabad
- Delivered talk as an **Invited Speaker** in the webinar on "*India towards Drought Resilience*" organized by "Shaheed Rajguru College of Applied Sciences for Women" (Delhi University) on "World Environment Day- 2024" on 5th June 2024.
- Delivered Lecture as **Resource person** in a one-week State-level Youth Red Cross Camp at Kurukshetra organized by Haryana State Red Cross Branch, Chandigarh from September 11 to 16, 2024.
- Delivered lecture as a **Resource person** on "*Solid waste management*" and "*Water conservation*" in the training courses for Eco-Club in charge, Teacher in the Department of School Education Haryana, organized on November 07, 2024, at HIPA, Gurugram.
- Delivered lecture as a **Resource person** on "*Solid waste management*" and "*Water conservation*" in the training courses for Eco-Club in charge, Teacher in the Department of School Education Haryana, organized on Nov ember 28, 2024, at HIPA, Gurugram.
- Delivered lecture as a **Resource person** on "*Solid waste management*" and "*Water conservation*" in the training courses for Eco-Club in charge, Teacher in the Department of School Education Haryana, organized on January 02, 2025, at HIPA, Gurugram.
- Delivered lecture as a **Resource person** on "*Solid waste management*" and "*Water conservation*" in the training courses for Eco-Club in charge, Teacher in the Department of School Education Haryana, organized on January 16, 2025, at HIPA, Gurugram.
- Delivered an **invited talk** in the National Conference on "Recent Progression in Materials Science (NCRPMS-2025)" organized from March 4-5, 2025 by the Department of Chemistry, Aggarwal College, Ballabgarh, Haryana.
- Attended/Contributed as **'Session Co-chair'** in the 2nd International Conference on "Advanced Materials for Green Chemistry and Sustainable Environment" (AMGSE - 2025) organized from March 20-21, 2025 at the K R Mangalam University, Gurugram (Haryana).
- Delivered an **Extension lecture** on "*Eco-Agriculture Practice for Soil Sustainability*" to the Master's students in the Department of Environmental Sciences on April 22 & 25, 2025, at Bhagat Phool Singh Mahila Vishwavidyalaya, Khanpur Kalan, Sonepat, Haryana (India).
- Delivered an **invited talk** and '**Session Chairman'** in the International Conference on "Nano-Structured Materials and Nanocomposites (ICN 2025)" organized from September 12-14, 2025, at Mahatma Gandhi University, Kottayam, Kerala, India.

Conferences Attended:

1) GIAN- International Summer Term Course - 2016 **on "NanoTechnology: Synthesis, Characterization, Fabrication and Applications"** held from June 6-11, 2016 at Dr. BR Ambedkar National Institute of Technology Jalandhar, India.
2) **N. Kataria**, V.K. Garg & B. Singh (2018) "Synthesis and characterization of magnetic Fe_3O_4/Sawdust carbon and EDTA@Fe_3O_4/Sawdust carbon nanocomposites for Cd (II) adsorption" **International conference on Sustainable Agriculture, Energy, Environmental and Technology. (ICSAEET-2018)** held on 24-25 March at Maharshi Dayanand University, Rohtak, India. **(Poster Presentation)**
3) **N. Kataria**, V.K. Garg, S. Joshi & B. Singh (2017) "Application of zinc oxide nanoparticles for adsorption of basic and azo dyes in aqueous solution" In Proceedings of **International conference on Emerging trends on Environmental Science and Engineering. (EAESE-17)** held from 16-18 February, 2017 at Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India. **(Oral Presentation)**
4) **N. Kataria**, V.K. Garg, (2017) "Removal of Congo Red and Brilliant Green Dye from Aqueous Solution using Flower Shaped ZnO nps" In Proceedings of **National Conference on New Horizons in Technology for Sustainable Energy and Environment (NHTSEE 2017)** held from 9-10 March, 2017 at YMCA University of Science and Technology, Faridabad, India. **(Best Oral Presentation)**.
5) **N. Kataria**, V. K. Garg, R. Daulta, K. Sharma, S. Joshi, B. Singh (2017) "Removal of Methylene Blue (MB) and Brilliant Green (BG) dyes from aqueous solution using EDTA@Fe_3O_4–SC" In Proceedings of **National conference on Analytical techniques and their Application (NCATA-2017)** held on March 16-17, 2017 at Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India. **(Poster Presentation)**
6) **N. Kataria**, V.K. Garg, S. Joshi, R. Daulta, (2017) "Biogenic green synthesis of EDTA@Fe_3O_4-SC for the adsorption of basic dyes from aqueous solution" In Proceedings of **International conference on Indo-US Partnership on Green Chemistry/Engineering and Technologies for Sustainable development" (GCET-2017)** held from April 20-22, 2017 at Panjab University, Chandigarh, India. **(Poster Presentation)**
7) S. Joshi, **N. Kataria,** V.K. Garg, K. Kadirvelu, N. Kishore & J. Saini **"**Preparation and characterization of silica-coated iron magnetic nanoparticles using Tea leaves**"** In Proceeding of **National conference on Photonic and Materials Science (NCPMS-2015)** held from November 18-19, 2015 at Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India. **(Poster Presentation).**

STTP/FDP/PPP/STC/Seminar/Workshops Attended:

1) Attended **Online Faculty Development Programme on "Digital Transformation in Teaching Learning Process"** held on April 6th to April 22nd, 2020 organized by Indian Institute of Technology, Bombay associated with SWAYAM Funded by Ministry of HRD, Govt. of India.
2) Attended **Online Faculty Development Programme on "Energy Conservation and Renewable Energy**" held from 08-12 June, 2020 organized by School of Engineering & Technology, Indira Gandhi National Open University, New Delhi.
3) Attended **Online International Webinar on "Science and Engineering for Nature Conservation**" held on World Environment Day – 5th June, 2020 organized by Department of Environmental Sciences, JCBUST, YMCA, Faridabad.
4) Attended Online "**Mendeley Training Course" (Elsevier)** held on dated 7th June, 2020, organized by Aggarwal College, Ballabgarh, India.
5) Attended Online Workshop on "**Science Leadership Workshop**" organized by the Central University of Punjab, Bathinda, India from June 22 to June 28, 2020.
6) Attended **One-Week Faculty Development Programme** on "**Green Technologies and Environmental Sustainability (GTES-2020)**" held from Sept. 7 to 12, 2020 in JC Bose University of Science and Technology, YMCA, Faridabad.
7) Attended **One Week International FDP** on "**Latest Trends in Engineering, Science and Technology: Nanomaterials**" Organized by Lendi Institute of Engineering and Technology, Vizianagaram, from 10-15 August 2020.
8) **Two Day National Conference on "Advances in Civil Engineering and Environmental Sciences**" (ACEES-2021) organized in J.C. Bose University of Science & Technology, YMCA, Faridabad from January 14-15, 2021.
9) **One Week Professional Development Program** organized by J.C. Bose University of Science & Technology, YMCA, Faridabad from 28 June to 3 July, 2021.
10) **One Week (08 days) Faculty Development Programme** on "Cardinal Role of Quality Education in Developing Self-Reliant India" organized by Aggarwal College, Ballabgarh from July 7-14, 2021.
11) **One Month, UGC Sponsored Faculty Induction Program (FIP)** organized by UGC-Human Resource Development Centre, Jamia Millia Islamia, New Delhi from 10th December 2021 to 8th January, 2022.
12) **One-week Short-term Training Program (STTP)** on Recent Advances in Technologies for Environmental Sustainability" organized by Department of Environmental Science and

Engineering, J.C. Bose University of Science and Technology, YMCA, Faridabad, Haryana (India) from March 7-12, 2022.

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