

**Dr. Nasreen Ghazi Ansari**

Senior Principal Scientist & Associate Professor (AcSIR)  
 Analytical Chemistry Laboratory and ASSIST Division,  
 CSIR- Indian Institute of Toxicology Research,  
 Vishvigyan Bhawan, 31, Mahatma Gandhi Marg, Post Box - 80,  
 Lucknow – 226 001 (UP) INDIA  
 Mob. No. +91-9935893635  
**E-mail;** [nasreen@iitr.res.in](mailto:nasreen@iitr.res.in), [nasreenghazi.ansari@csir.res.in](mailto:nasreenghazi.ansari@csir.res.in)




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**ACHIEVEMENTS**

<b>Publications:</b>	<b>57</b>
<b>Citations:</b>	<b>903</b>
<b>h-index:</b>	<b>18</b>
<b>i 10-index:</b>	<b>2</b>
<b>Book chapters:</b>	<b>03</b>
<b>Manual:</b>	<b>01</b>
<b>Projects:</b>	<b>06 (As PI); 19(As Co-PI)</b>
<b>M.Sc thesis</b>	<b>75</b>
<b>Ph.D. Thesis:</b>	<b>02 (As Co-Supervisor) 06(Ongoing, As Supervisor)</b>
<b>Invited Talk Delivered:</b>	<b>25</b>
<b>Training Organized:</b>	<b>07</b>
<b>Conference Attended:</b>	<b>&gt;30</b>

**EDUCATIONAL QUALIFICATION**

- 2006: Doctoral degree from Rani Durgavati University, Jabalpur, M.P, India, under the supervision of Prof. Ashutosh Srivastava, entitled “*Isolation, purification, characterization and bioherbicidal studies on bioactive molecules of selected plants*”.
- 2006: Certificate in computing from Indira Gandhi National Open University, New Delhi
- 1999: Master of Science degree (M.Sc.) in Chemistry (Analytical Chemistry specialization) from the Chemistry Department, Rani Durgavati University, Jabalpur,
- 1997: B.Sc. Degree (in Chemistry, Botany, Zoology) from Rani Durgavati University, Jabalpur, M.P, India,

**HONOURS/ DISTINCTIONS**

- Merit holder in M.Sc (Organic Chemistry) at Rani Durgawati University, Jabalpur
- **Senior Research Fellow** (*Residue chemist*) under the project “*Fate and phytotoxic efficacy of herbicides and their impact on nutrient cycle in soybean in relation to soil properties*” during May 2001-August 2006, at National Research Center for Weed Science (ICAR).

## PROFESSIONAL EXPERIENCE

**Research: 20 years • Teaching: 10 year**

S. No.	Duration	Designation	Institution
1.	2008-2012	Junior Scientist	CSIR-IITR
2.	2012-2016	Scientist	CSIR-IITR
3.	2016-2020	Senior Scientist	CSIR-IITR
4.	2020-2025	Principal Scientist	CSIR-IITR
5.	2025-Till date	Senior Principal Scientist	CSIR-IITR

### ACCREDITATION EXPERIENCE:

- NABL Inspector for ISO:17034 & ISO:17025, and Signatory at CSIR-IITR for Chemical Sciences (2012-2024)
- Head, Archive of CSIR-IITR GLP testing facility (2014- till date)

### PUBLICATIONS

Publication details in AMA style	Impact factor of the journal	Author type (first, corresponding coauthor)
Dhiman, S., H. V. Jain and N. G. Ansari (2026). "Plastic-free closed chamber in-glass rocket evaporation extraction: An eccentric approach to PFAS estimation from river water." <i>Microchemical Journal</i> : 117586.	5.1	Corresponding
Jain, H. V., S. Dhiman and N. G. Ansari (2026). "Temperature-mediated synthesis of starch-alginate bio-composites for controlled release of chlorpyrifos: Structural, kinetic, and release performance." <i>Bioresource Technology Reports</i> : 102652.	4.3	Corresponding
Jain, H. V., S. Dhiman and N. G. Ansari (2026). "Augmenting Adsorption-Based Slow-Release Pesticide Performance via Kaolin Alginate Chitosan Cryo-Gel Composites: Strategic Optimization of Formulation Parameters." <i>Polymer</i> <b>343</b> : 129394.	4.5	Corresponding
Jattan, D., Z. Fatima, N. G. Ansari, G. Mishra and A. Singh (2026). "Cue driven mating dynamics in ladybird beetle, cheilomenes sexmaculata (fabricius)." <i>Journal of Chemical Ecology</i> <b>52</b> (24).	1.8	Coauthor
Gupta, R. K., P. Saxena and N. G. Ansari (2025). "Evaluating the safety and health concerns of plant-based milk alternatives through elemental profiling using ICP-MS." <i>Food and Humanity</i> <b>5</b> : 100760.	-	Corresponding
Dhiman, S., H. V. Jain, A. Yadav and N. G. Ansari (2025). "Probing the fate and transport of PFAS in urban soils: Insights from ASE-LC-HR/MS analysis." <i>Journal of Hazardous Materials</i> <b>494</b> : 138635	11.3	Corresponding
Bisht, N., S. Dhiman, H. V. Jain, N. G. Ansari, D. Rana and D.	1.6	Coauthor

Singh (2025). "Heavy metal bioaccumulation in fish: emerging trends and associated health implications." <i>Limnology</i> <b>27</b> : 101-124.		
Arif Hussain Ansari, A. D., Nasreen Ghazi Ansari, Archana Sonker. (2025). "Tracing early life on Mars: Lessons from organics reduced in high altitude hot spring of Ladakh." <i>Progress in Earth and planetary science</i> <b>12</b> (49).	-	Coauthor
Anamta Rizvi , S. K., GNV Satyanarayana, Nasreen Ghazi Ansari, Sangeeta Saxena (2025). "Evaluation of growing conditions, organoleptic properties, antimicrobial activities and biochemical characterization of three culinary microgreens." <i>Food and Humanity</i> <b>4</b> : 100547.	-	Coauthor
Jain, H. V., S. Dhiman and N. G. Ansari (2025). "Divulging the unexpected: Insight investigation of minor and toxic elements in diverse millet." <i>Microchemical Journal</i> <b>213</b> : 113636.	5.1	Corresponding
Jain, H. V., S. Dhiman, P. Verma and N. G. Ansari (2025). "Exploring the aspect of different elements in ketchups and sauces: Threat lurking on dining tables." <i>Journal of Food Composition and Analysis</i> <b>148</b> (2): 108275.	4.6	Corresponding
Kumar, S., A. Rizvi, S. G. N. V., N. G. Ansari and S. Sangeeta (2025). "Evaluation of antibacterial and antioxidant potential of ripened and unripened fruits of <i>Carica papaya</i> L. and their phytochemical profiling using gas chromatography mass spectroscopy." <i>Environmental Sustainability</i> <b>8</b> : 649-667.	2.8	Coauthor
Lata, S. and N. G. Ansari (2025). "An experimental and computational approach for synchronized removal of Cr (VI) and Chlorpyrifos through highly efficient Fe-MOF from Aqueous solution." <i>Journal of Molecular Structure</i> <b>1344</b> : 142906	4.7	Corresponding
Lata, S. and N. G. Ansari (2025). Silver Nanomaterial and Composite-Based Nanosensors for the Agriculture Sector. <i>Nanobiosensors for Agricultural and Other Related Sectors</i> , Springer Nature Singapore Singapore: 221-245.	-	Corresponding
Lata, S. and N. G. Ansari (2026). "Iron-Based Metal–Organic Frameworks as Efficient Adsorbents for Wastewater Remediation: Insight into Mechanistic, Eco toxicological and Disposal Concerns." <i>Microporous and Mesoporous Materials</i> <b>402</b> : 113945.	4.7	Corresponding
Mishra B, Gautam GJ, Chaturvedi RK, Ansari NG, Mishra VN. Ecological and health risk assessment of heavy metals bioaccumulation in Ganges Fish Near Varanasi, India. <i>Biological Trace Element Research</i> . 2024;202(10):4751-4766.	3.6	Coauthor
Lata S, Ansari NG. Analytical Techniques for Heavy Metal Analysis. <i>Heavy Metal Contamination in the Environment</i> . CRC Press; 2024:180-202.	-	Corresponding
Kumar V, Hashmi H, Ansari NG, Singh J. Incense smoke (IS) inhalation exposure system: physicochemical characterization, IS particle deposition and clearance in human airway using MPPD model. <i>Particuology</i> . 2024;87:271-285.	4.1	Coauthor
Jain HV, Dhiman S, Ansari NG. Recent trends in techniques, process and sustainability of slow-release formulation for pesticides. <i>Industrial Crops and Products</i> . 2024;216:118764.	6.2	Corresponding

Garg R, Mahato H, Choudhury U, et al. The tomato EAR-motif repressor, SlERF36, accelerates growth transitions and reduces plant life cycle by regulating GA levels and responses. <i>Plant Biotechnology Journal</i> . 2024;22(4):848-862.	13.2	Coauthor
Dhiman S, Ansari NG. A review on extraction, analytical and rapid detection techniques of Per/Poly fluoro alkyl substances in different matrices. <i>Microchemical Journal</i> . 2024;196:109667.	5.1	Corresponding
Ansari A, Das A, Sonker A, Ansari NG, Ansari MA, Morthekai P. Assessment of the health risks associated with heavy metal contamination in the groundwaters of the Leh district, Ladakh. <i>Environmental Geochemistry and Health</i> . 2024;46(10):369.	4.0	Coauthor
Amir M, Raheem A, Kumar A, et al. Role of phytofabricated gold nanoparticles for enhancing sustainable <i>Spinacia oleracea</i> L. production. <i>South African Journal of Botany</i> . 2024;166:386-397.	2.7	Coauthor
Singh V, Madeshiya AK, Ansari NG, Singh MK, Abhishek A. CYP1A1 gene polymorphism and heavy metal analyses in benign prostatic hyperplasia and prostate cancer: An explorative case-control study. Elsevier; 2023:355. e9-355. e17	2.4	Coauthor
Yadav P, Singh R, Gupta N, et al. Modified DLLME-SFO approach for evaluation of multiclass agrochemicals and its associated risk assessment: Soil, <i>Saccharum officinarum</i> and Jaggery. <i>Food Chemistry Advances</i> . 2022;1:100032.	1.9	Coauthor
Kumar A, Das T, Thakur RS, et al. Synthesis of biomass-derived activated carbons and their immobilization on alginate gels for the simultaneous removal of Cr (VI), Cd (II), Pb (II), As (III), and Hg (II) from water. <i>ACS omega</i> . 2022;7(46):41997-42011.	3.7	Corresponding
Gupta N, Thakur RS, Kumar S, et al. Modified DLLME-GC-TQMS determination of pesticide residues in Gomti River, Lucknow, India: ecological risk assessment and multivariate statistical approach. <i>Environmental Science and Pollution Research</i> . 2022;29(35):53737-53754.	5.1	Coauthor
Verma J, Jha RR, Gupta N, Thakur RS, Ansari NG, Patel DK. QuEChERS based analysis of multiple pesticides and phthalates in packaged food products. <i>Microchemical Journal</i> . 2021;171:106882.	4.9	Corresponding
Thakur RS, Kumar A, Lugun O, et al. Evaluation of heavy metal contaminants in prepared noodles: source allocation and health risk assessment. <i>Environmental Science and Pollution Research</i> . 2021:1-12.	5.9	Coauthor
Priyadarshini A, Singh A, Jaiswar SP, et al. Pesticides Level Mediates Oxidative Stress In Recurrent Pregnancy Loss Of Northern Indian Women. <i>British Journal of Pharmaceutical and Medical Research</i> . 2021;6(04):3178-3188.	5.0	Coauthor
Kumar A, Prasad S, Saxena PN, Ansari NG, Patel DK. Synthesis of an alginate-based Fe <sub>3</sub> O <sub>4</sub> -MnO <sub>2</sub> xerogel and Its application for the concurrent elimination of Cr (VI) and Cd (II) from aqueous solution. <i>ACS omega</i> . 2021;6(5):3931-3945	3.7	Corresponding
Pandey A, Jaiswar SP, Ansari NG, et al. Pesticide risk and	0.8	Coauthor

recurrent pregnancy loss in females of subhumid region of India. <i>Nigerian Medical Journal</i> . 2020;61(2):55-59.		
Abhishek A, Ansari NG, Singh V, Sinha RJ, Mishra P, Mishra A. Genetic susceptibility of CYP1A1 gene and risk of pesticide exposure in prostate cancer. <i>Cancer Biomarkers</i> . 2020;29(4):429-440	2.2	Coauthor
Gupta V, Ansari NG, Garg RK, Khattri S. Determination of Cd, Cr, Pb and Ni contents among Parkinson's disease individuals: a casecontrol study. <i>International Journal of Neuroscience</i> . 2017;127(9):770-775.	1.7	Coauthor
Ankita Asati GNVS, Smita Panchal, Ravindra Singh Thakur, Nasreen G Ansari, Devendra K Patel. Ionic liquid based vortex assisted liquid-liquid microextraction combined with Liquid Chromatography Mass spectrometry for the determination of Bisphenols in Thermal papers with the Aid of Response Surface Methodology. <i>Journal of Chromatography A</i> . 2017;	3.8	Coauthor
Pal A, Alam S, Chauhan LK, et al. UVB exposure enhanced the dermal penetration of zinc oxide nanoparticles and induced inflammatory responses through oxidative stress mediated by MAPKs and NF- $\kappa$ B signaling in SKH-1 hairless mouse skin. <i>Toxicology research</i> . 2016;5(4):1066-1077.	2.3	Coauthor
Miyan K, Khan MA, Patel DK, Khan S, Ansari NG. Truss morphometry and otolith microchemistry reveal stock discrimination in <i>Clarias batrachus</i> (Linnaeus, 1758) inhabiting the Gangetic river system. <i>Fisheries research</i> . 2016;173:294-302.	2.2	Coauthor
Anurag Kumar Srivastav MK, Nasreen Ghazi Ansari, Abhishek Kumar Jain, Jai Shankar, Nidhi Arjaria, Pankaj Jagdale, Dharendra Singh. A comprehensive toxicity study of zinc oxide nanoparticles versus their bulk in Wistar rats: Toxicity study of zinc oxide nanoparticles. <i>Human and Experimental Toxicology</i> . 2016:1-19.	3.0	Coauthor
Singh UV, Abhishek A, Bhaskar M, Tandan N, Ansari NG, Singh NP. Phyto-extraction of heavy metals and biochemical changes with <i>Brassica nigra</i> L. grown in rayon grade paper mill effluent irrigated soil. <i>Bioinformation</i> . 2015;11(3):138.	1.9	Coauthor
Kumari R, Patel DK, Panchal S, et al. Fast agitated directly suspended droplet microextraction technique for the rapid analysis of eighteen organophosphorus pesticides in human blood. <i>Journal of Chromatography A</i> . 2015;1377:27-34.	3.8	Coauthor
Pandey R, Prasad RL, Ansari NG, Murthy RC. Utilization of NaOH modified <i>Desmostachya bipinnata</i> (Kush grass) leaves and <i>Bambusa arundinacea</i> (bamboo) leaves for Cd(II) removal from aqueous solution. <i>Journal of Environmental Chemical Engineering</i> . 2014	7.4	Coauthor
Pandey R, Ansari NG, Prasad RL, Murthy RC. Removal of Cd (II) ions from simulated wastewater by HCl modified <i>Cucumis sativus</i> peel: Equilibrium and kinetic study. <i>Air, Soil and Water Research</i> . 2014;7:ASWR. S16488.	3.5	Coauthor
Abhishek A, Ansari NG, Shankhwar SN, Jain2, Vishwajeet A. In vitro toxicity evaluation of low doses of pesticides in individual and mixed condition on human keratinocyte cell line. <i>Bioinformation</i> . 2014;10(12):712-716.	1.9	Coauthor

## Projects (Last Ten years)

Title of the project.	Duration	Funding Agency	Amount of funding
<b>As PI</b>			
Deltamethrin analysis in filter paper samples	2018-2019	ICMR Vector Control Research Centre, Field Station, Koraput, Odisha	6,00,000
Strategic Approaches in regulatory Toxicology for Emerging pollutants and products (Start-EPP)	2018-2021	CSIR	8,00,000
Analysis of pesticides and other organic chemicals in environmental samples	2019-2020	ICMR- Regional Medical Research Centre, Bhubaneswar Odisha	6,00,000
Analysis of Barium and Alimunium in PM 2.5 in digested samples	2020-2021	U.P Pollution Control Board, Lucknow	3,18,600
Rat Brain (Animal tissue) and Sahastraputi Abhrak Bhasma (Ayurvedic drug) samples	2021-2022	UPUMS, Saifai, Etawah	1,82,900
Analysis of heavy metals, pesticides and antibiotics in water samples from different sites of river Godawari	2021-2022	National Bureau of Fish Genetic Resources, Lucknow	2,78,480
<b>As Co-PI</b>			
Analysis of physicochemical parameters, metals in Nala water, river water and ground water samples	2020-2021	Grasim Industries Limited, Sonebhadra	2,37,600
Analysis of ground water sample and soil samples for heavy metals.	2020-2021	Bharat Oil and Waste Management, Kanpur	2,40,000
Analysis of cigarette and bidi butts for toxic chemical (NGT case through CPCB)	2019-2020	CPCB, New Delhi	49,00,000
Preparation of Certified Reference Material of pesticides in Tea sample	2015-2017	Physikalisch-Technische Bundesanstalt (PTB), Germany	15,58,401
“Advance analytical instrumentation techniques: Application in the area of environment	2016-2017	MPCB, Mumbai,	11,50,000
Studies on transmigration of PAHS and MOH from jute bag to packaged food items	2015-2018	Indian Jute Industries Research Association, Kolkata	16,86,400
Deltamethrin analysis in filter paper samples”	2018-2019	ICMR Vector Control Research Centre, Field Station, Koraput, Odisha	6,00,000
Deltamethrin analysis in filter paper samples from Jabalpur	2018-2019	ICMR- National Institute of Research in tribal Health, Jabalpur (M.P.)	6,00,000
Analysis of Pesticide in blood, vegetables and soil samples	2017-2019	KGMU, Lucknow	25,00,000
Analysis of heavy metals, pesticides and antibiotics in water samples from different sites of river Godawari	2018-2019	ICAR-National Bureau of Fish Genetic Resources, Lucknow	5,09,760
Analysis of metal in NPK fertilizer samples	2018 - 2019	Indian Farmers Fertilizer Cooperative Ltd. Gujarat	3,78,190

Analysis of pesticides in soil, fish and plants samples	2018-2019	Wildlife trust of India, Noida,	2,83,200
Analysis of water, fly ash, bottom ash, dug well, water sample for physiochemical parameter & metal Hg, Cr, As, Pb.	2016-2018	Prayagraj Power Generation Co, Ltd Allahabad	2,70,000
Analysis of metal in NPK fertilizer samples	2018-2019	Indian Farmers Fertilizer Cooperative Ltd. Kandla, Kanchchh, Gujarat	3,78,190
Analysis of pesticides in soil, fish and plants samples	2018-2019	Wildlife trust of India, Noida, U.P.	2,83,200
Analysis of heavy metals, pesticides and antibiotics in water samples from different sites of river Godawari.	2018-2019	ICAR-National Bureau of Fish Genetic Resources, Canal Ring Road, Telibagh, Lucknow	1,27,440
Analysis of metal in NPK fertilizer samples	2018-2019	Indian Farmers Fertilizer Cooperative Ltd. Kandla, Kanchchh, Gujarat	3,78,190
GC-MS analysis of soil and water samples	2018-2019	BB Ambedkar University, Lucknow	3,00,000
Analysis of sludge samples for Metals and Physicochemical parameters	2020-2021	NTPC, Vindhyanagar, MP	1,32,000

#### **TRAINING PROGRAMME ORGANIZED**

- “Soil & Water Testing Lab Assistant training programme AGR/Q8102 under Agriculture Skill Council of India (ASCI) during December 31, 2019 – January 30, 2020.
- "Environment, Health and Safety Manager (LFS/Q0214)" LSSSDC course during February 3- 22, 2020, under the National Skill Development Corporation (NSDC)
- “Monitoring of PM2.5 and Other Notified Air Pollutants as per Revised NAAQS 2009” from 14th to 18th October 2019.
- “Analysis of pesticides and other organic chemicals in environmental samples” during 23<sup>rd</sup> to 27<sup>th</sup> September, 2019.
- The Green Skill Development Programme was organized from 10 Dec. 2018 to 25 Jan. 2019.
- “Advance analytical instrumentation techniques: Application in the area of environment” from 22-26 August, 2016 and 19-23 September, 2016 for Maharashtra Pollution Control Board.
- “Ambient Air and Stack Monitoring Technique: Hands-on-Training” from 15-17 February, 2016 and 19-23 September, 2016 for CPCB

#### **MEMBERSHIP OF PROFESSIONAL BODY:**

Life Member of the Indian Society of Analytical Scientists (Membership No.LMT-2010/42)