

Muhammad Nauman Hanif

Soil & Environmental Scientist | PhD Applicant

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Profile

Soil and environmental scientist with an M.Sc. (Hons.) in Soil Science and a strong research foundation in soil pollution, pesticide residues, microplastics, and environmental risk assessment. My master's thesis focused on pesticide residue contamination in cauliflower grown near Multan, providing advanced experience in field sampling, analytical chemistry, environmental monitoring, and data interpretation. I have published in peer-reviewed international journals, contributed to conference presentations, and developed research communication and peer-review experience through scholarly publishing and academic quality-related activities. My work combines analytical laboratory skills, scientific writing, and evidence-based environmental research, with a particular interest in understanding how contaminants affect soil health, agroecosystems, and sustainable agricultural productivity. I am seeking PhD opportunities in soil science, environmental chemistry, and agro-environmental research to advance my research training and contribute to evidence-based solutions for soil and environmental sustainability.

Education

Master of Science (Hons.) in Soil Science 2022 – 2024
MNS University of Agriculture, Multan., Multan, Pakistan

- Thesis: Risk Assessment of Pesticide Residues in Cauliflower grown in the vicinity of Multan City
- Advisor/Supervisor: Prof. Dr. Tanveer-ul-Haq
- GPA: 3.90/4.00

Bachelor of Science (Hons.) in Agriculture (Soil Science) 2018 – 2022
MNS University of Agriculture, Multan., Multan, Pakistan

- GPA: 3.81/4.00

Research Interests

- Soil contamination and environmental pollution assessment
- Pesticide residues, agrochemical risk assessment, and food safety
- Microplastics and nanoplastics in terrestrial ecosystems
- Soil health, nutrient dynamics, and agroecosystem sustainability
- Environmental chemistry, analytical methods, and contaminant fate studies
- Sustainable agriculture, climate resilience, and soil management strategies

Experience

Founder & Director

Apr 2026 – present

MeritasX, Multan, Pakistan

- Developing an academic publishing and research-support platform for journals, publishers, researchers, and scholarly organizations.
- Leading the development of digital solutions for journal management, peer review, impact-factor calculation, and conference management.
- Providing scholarly publishing services and developing web-based infrastructure for journal administration, editorial workflows, and research communication.

Freelance Academic Publishing Consultant

Dec 2024 – present

International Academic Journals & Publishers | NDA Bound

- Provide consultancy support across journal management, editorial workflows, manuscript processing, and scholarly publishing operations.
- Support peer review, publication ethics, plagiarism screening, scientific typesetting, and manuscript handling, using digital publishing platforms including Open Journal Systems (OJS).
- Develop and maintain journal websites and publishing infrastructure using OJS and WordPress, supporting journal administration, online publishing, and scholarly communication.

Studentship / Intern — Office of Research, Innovation & Commercialization (ORIC) & Central Laboratory System (CLS)

Aug 2023 – Nov 2023

MNS University of Agriculture, Multan, Multan, Pakistan

- Supported university ranking and research-data activities, including collection and organization of institutional publication data.
- Compiled and managed historical research and publication records for institutional reporting and evaluation.
- Contributed to the preparation of reports related to the United Nations Sustainable Development Goals (SDGs).
- Supported laboratory operations through monitoring of laboratory safety protocols, instrument care, workspace organization, and compliance with institutional procedures.
- Gained practical exposure to the intersection of research administration, institutional reporting, laboratory management, and academic quality practices.

Intern

Feb 2022 – May 2022

Pesticide Quality Control Laboratory (PQCL), Multan, Punjab, Pakistan

- Received practical training in pesticide quality assessment and analytical laboratory procedures.
- Gained hands-on experience with High-Performance Liquid Chromatography (HPLC) and Gas Chromatography (GC) for pesticide-related analysis.
- Developed practical understanding of pesticide analysis, laboratory workflows, sample handling, and analytical instrumentation.
- Strengthened laboratory and analytical skills relevant to pesticide residue assessment and environmental contamination research.

Author Metrics

Metric	Value	Metric	Value
Journal Articles	8	Review Papers	5
Research Papers	3	Conference Abstracts	6
H-index	3	i10-index	2
Total Unique Citations	151	Overall Impact Factor	13.6
Citation – Google Scholar	138	Citations – Scopus	104
Citations – Web of Science	84	1st Author (Journal Articles)	6 times
Correspondence (Journal Articles)	6 times	HEC Indexed	3 out of 8
Scopus Indexed	7 out of 8	Web of Science Indexed	5 out of 8

Thesis [1]

Risk Assessment of Pesticide Residues in Cauliflower Grown in Vicinity of Multan City 2024
M. N. Hanif
 | Master's thesis, MNS University of Agriculture, Multan, Pakistan

Review Papers [5]

Microplastics as Pesticide Vectors in Soil: Bridging Aqueous Insights to Terrestrial Co-Contamination Risks and Ecosystem Impacts 2025
M. N. Hanif, N. K. Abbood, M. Babur, M. Akhtar, H. Sun, K. Azam, M. N. Akhtar, Q-Ul. Ain
 | International Journal of Environmental Science & Technology
 Scopus: Q1 | Web of Science | Impact Factor: 3.4 | Cite Score: 8.2

Silicon: A Sustainable Approach to Climate Resilience and Crop Productivity 2026
M. N. Hanif, M. Akhtar, N. K. Abbood, K. Azam
[10.1007/s12633-025-03597-w](https://doi.org/10.1007/s12633-025-03597-w) | Silicon
 Scopus: Q2 | Web of Science | Impact Factor: 3.3 | Cite Score: 7.7

Soil Pollution in Urban Environments: Sources, Consequences, Potential Mitigation Strategies and the Importance of Sustainable Urban Development 2025
M. N. Hanif, I. B. Benitez
[10.1007/s11270-025-08421-0](https://doi.org/10.1007/s11270-025-08421-0) | Water, Air, & Soil Pollution
 Citations: 5 | Scopus: Q2 | Web of Science | Impact Factor: 3.0 | Cite Score: 4.6

Impact of microplastics on soil (physical and chemical) properties, soil biological properties/soil biota, and response of plants to it: a review 2024
M. N. Hanif, N. Aijaz, K. Azam, M. Akhtar, W. A. Laftah, M. Babur, N. K. Abbood, I. B. Benitez
[10.1007/s13762-024-05656-y](https://doi.org/10.1007/s13762-024-05656-y) | International Journal of Environmental Science and Technology
 Citations: 129 | Scopus: Q1 | Web of Science | HEC/HJRS: W | Impact Factor: 3.0 | Cite Score: 6.5

Factors Affecting Nitrogen Use Efficiency (NUE): Meta Analysis 2023
M. N. Hanif
[10.19159/tutad.1260531](https://doi.org/10.19159/tutad.1260531) | Turkish Journal of Agriculture Research
 Citations: 14 | DOAJ

Research Papers [3]

Risk Assessment of Pesticide Residues in Cauliflower grown in the vicinity of Multan City 2024
M. N. Hanif, T. Ul-Haq, M. N. Akhtar, A. Hussain, A. Matloob
[10.17582/journal.sja/2024/40.4.1164.1171](https://doi.org/10.17582/journal.sja/2024/40.4.1164.1171) | Sarhad Journal of Agriculture
Citations: 2 | Scopus: Q3 | HEC/HJRS: Y | Cite Score: 1.0

Calcium Carbide Induced Ethylene Regulates Seed Dormancy and Post-Germination Growth of Sweet Pepper 2024
W. Ahmed, M. N. Akhtar, M. W. Akhtar, M. N. Hanif, A. Salah ud Din, A. Mahmood
[10.17582/journal.pjar/2024/37.3.223.231](https://doi.org/10.17582/journal.pjar/2024/37.3.223.231) | Pakistan Journal of Agricultural Research
Citations: 1 | Scopus: Q3 | Cite Score: 1.4

Effects of Soil-Applied Potassium on Potassium Use Efficiency, Leaf Water, and Biochemical Attributes of Cotton Cultivars Under Reduced Irrigation 2025
M. N. Akhtar, T. Ul-Haq, G. Abbass, T. Naz, M. M. Iqbal, M. N. Hanif, M. W. Akhtar
[10.30848/PJB2025-6\(30\)](https://doi.org/10.30848/PJB2025-6(30)) | Pakistan Journal of Botany
Scopus: Q3 | Web of Science | HEC/HJRS: W | DOAJ | Impact Factor: 0.9 | Cite Score: 2.1

Manuscripts Under Review/Consideration [4]

Microplastics: An Emerging Factor in the Terrestrial Carbon Cycle and Soil's Feedback 2026
M. N. Hanif et al.
| Eurasian Journal of Soil Science
Under Consideration.

Environmental Aging of Microplastics Alters Nutrient Dynamics and Agrochemical Interactions in Soil 2026
M. N. Hanif et al.
| Water, Air, & Soil Pollution
Under Review.

Potential of PGPB and Trichoderma-Loaded Biochar Application to Improve Chickpea Growth 2026
M. Ather et al.
| Journal of Soil Science and Plant Nutrition
Under Review.

Conference Abstracts [6]

Quantifying Pesticide Residues and Associated Risks in Cauliflower Grown in the Vicinity of Multan City 2024
M. N. Hanif, T. Ul-Haq, M. N. Akhtar, A. Hussain, A. Matloob
2nd International Conference on Soil, Plant, and Environmental Health under Changing Climate
MNS University of Agriculture, Multan, Pakistan — [View Abstract](#)

Impact of Microplastics on Soil Physiochemical and Biological Properties 2024
M. N. Hanif, T. Ul-Haq, N. Majeed, A. Ali, M. N. Akhtar, M. Ather, S. Sehar
20th International Congress of Soil Science on “Soil Health: A Key to Food Security”
Soil Science Society of Pakistan and PMAS-Arid Agriculture University Rawalpindi, Pakistan — [View Abstract](#)

Harnessing BioChar for Sustainable Agriculture: A Novel Approach to Mitigate Smog from Rice Straw S. Sehar, M. Arif, M. Sana Ullah, A. Ali, N. Majeed, M. Ather, M. N. Hanif , A. Mahmood 20th International Congress of Soil Science on “Soil Health: A Key to Food Security” Soil Science Society of Pakistan and PMAS-Arid Agriculture University Rawalpindi, Pakistan — View Abstract	2024
Advancing Soil Health Management through GIS and Remote Sensing: A Sustainable Approach N. Majeed, M. Imran, S. Sehar, M. Ather, A. Ali, M. Sana-ullah, M. Sulaiman, M. N. Hanif , A. Mahmood, T. Ul-Haq 20th International Congress of Soil Science on “Soil Health: A Key to Food Security” Soil Science Society of Pakistan and PMAS-Arid Agriculture University Rawalpindi, Pakistan — View Abstract	2024
Soil Health in a Changing Climate: Challenges and Mitigation Strategies for Sustainable Agriculture A. Ali, S. Ahmad, M. Ather, S. Sehar, N. Majeed, M. N. Hanif , M. Sana-ullah, A. Qureshi, A. Mahmood 20th International Congress of Soil Science on “Soil Health: A Key to Food Security” Soil Science Society of Pakistan and PMAS-Arid Agriculture University Rawalpindi, Pakistan — View Abstract	2024
Sustainable Management of Agricultural ByProducts: A Strategical Approach To Bolster Food Security and Mitigate Climate Change M. Ather, M. U. Jamshaid, A. Ali, N. Majeed, S. Sehar, M. Sana-ullah, M. N. Hanif , A. Mahmood 20th International Congress of Soil Science on “Soil Health: A Key to Food Security” Soil Science Society of Pakistan and PMAS-Arid Agriculture University Rawalpindi, Pakistan — View Abstract	2024
Instrumental Expertise • HPLC (Waters 2996, Perkin Elmer HPLC, and Agilent) • GC-MS & FID • Spectrophotometer (Hitachi uh 5300) • EC and pH Meter • Centrifuge • Mechanical Shaker • Flame Photometer (BWB Model BWB-XP)	
Honors & Awards	
Merit-Based Scholarship MNS University of Agriculture, Multan Awarded for excellent academic performance in the 6th semester of bachelor’s degree.	2022
Merit-Based Scholarship MNS University of Agriculture, Multan Awarded for excellent academic performance in the 3rd semester of bachelor’s degree.	2021
Ehsaas Scholarship Government of Pakistan Awarded on a merit basis for undergraduate studies.	2020
Chief Minister of Punjab’s Laptop Scheme Government of Punjab, Pakistan Awarded under the youth empowerment laptop scheme for exceptional performance in matriculation/O-level.	2018

Peer Review Activity [11]

- Discover Sustainability (E-ISSN: 2662-9984) — 1 Review
- Discover Environment (E-ISSN: 2731-9431) — 1 Review
- NTU Journal of Agriculture and Veterinary Science (E-ISSN: 2788-9904) — 1 Review
- Journal of Research in Agriculture and Food Sciences (E-ISSN: 3041-4180) — 1 Review
- Environment, Development and Sustainability (E-ISSN: 1573-2975) — 1 Review
- Environmental Pollutants and Bioavailability (E-ISSN: 2639-5940) — 1 Review
- Journal of Biosciences and Public Health (E-ISSN: 3104-8749) — 1 Review
- Journal of Experimental Agriculture International (E-ISSN: 2457-0591) — 1 Review
- Journal of Experimental Biology and Agricultural Sciences (E-ISSN: 2320-8694) — 2 Reviews
- Asian Journal of Soil Science and Plant Nutrition (E-ISSN: 2456-9682) — 1 Review

Memberships

- Soil Science Society of Pakistan

Skills

- Soil & Environmental Pollution Assessment
- Pesticide Residue Analysis
- Microplastics Research
- Laboratory Techniques (HPLC, GC-MS, Spectrophotometry)
- Data Analysis & Statistical Software (R, JAPS)
- Scientific Writing & Publication
- Open Journal Systems (OJS)
- WordPress
- Microsoft Office (Word, PPT, & Excel)

Languages

- English (IELTS: 7.0) — [IELTS Certificate](#)
- Urdu (Native)
- German (Beginner)

References

Prof. Dr. Tanveer-ul-Haq

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Department of Soil & Environmental Sciences, MNS University of Agriculture, Multan, Pakistan.
Email: tanveer.ulhaq@mnsuam.edu.pk

Dr. Muhammad Baqir Hussain

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Dr. Muhammad Naeem Akhtar

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