

DEPARTMENT OF ENVIRONMENTAL SCIENCE & POLICY

RESEARCH OUTPUT OF THE DEPARTMENT OF ENVIRONMENTAL SCIENCE & POLICY

CATEGORY	2023 (Actual)	2024 (On-going)
HEC W Category/Impact Factor Journal Articles	6	15
HEC X and Y Category Journal Articles	4	1
ABDC/ABS/ MLA Journal Articles	0	0
Books	0	0
Book Chapters	4	0
National Conference Papers	6	0
International Conference Papers	1	1
Case Studies	0	0
Lahore School Working Papers / International Working Papers	1	0
Artistic productions (catalogued)	0	0
MS Research Projects Supervised	0	0
MPhil Theses supervised (Completed)	8	0
MPhil Theses supervised (On-going)	4	7
PhD Theses supervised (Completed)	0	0
PhD Theses supervised (On-going)	0	0

RESEARCH PUBLICATIONS (ACTUAL 2023 & ON-GOING 2024)**Actual 2023 (Author/s, Title of Publication, Journal, Year)****HEC W Category/Impact Factor Journal Articles**

1. Amir, H., Tamime, R., Shamair, Z., Khan, A. L., AlMohamadi, H., & Nawaz, R. (2023). Enhanced gas separation performance of PIM-1 blend membranes incorporating ionic liquid (3-(trimethoxysilyl) propan-1-aminium acetate ([APTMS][Ac])) as filler: Investigation of morphology, compatibility and transport properties. *Fuel*, 349, 128669. (Impact Factor)
2. Ashraf, I., Ahmad, S. R., Ashraf, U., & Khan, M. (2023). Community perspectives to improve flood management and socio-economic impacts of floods at Central Indus River, Pakistan. *International Journal of Disaster Risk Reduction*, 92, 103718. (Impact Factor)
3. Ashraf, U., Peterson, A. T., Chaudhry, M. N., & Cobos, M. E. Global ecological niche conservatism and evolution in *Olea* species. *Saudi Journal of Biological Sciences*, 30(1), 103500. (HEC W Category)
4. Khan, M., Chaudhry, M. N., Anwar, M., Ashraf, U., & Ali, H. Effect of Lockdown on the Air Quality of Four Major Cities in Pakistan During the COVID-19 Pandemic. *Journal of Environmental Health*, 85(6), 2023. (Impact Factor)
5. Siddique, S., Chaudhry, M. N., Ahmad, S. R., Javed, R., Nazir, R., Mubarak, S., ... & Mahmood, A. Comprehensive GIS based risk surveillance of organochlorine pesticides (OCPs) in edible fish species of River Chenab, Pakistan. *Science of The Total Environment*, 871, 162084, 2023. (HEC W Category)
6. Siddique, S., Chaudhry, M. N., Ahmad, S. R., Nazir, R., Zhao, Z., Javed, R., & Mahmood, A. Ecological and human health hazards; integrated risk assessment of organochlorine pesticides (OCPs) from the Chenab River, Pakistan. *Science of The Total Environment*, 882, 163504, 2023. (HEC W Category)

HEC X and Y Category Journal Articles

24. Fatima, S., Ash'aari, Z. H., Ramli, M. F., Sharaai, A. H., & Chaudhry, M. N. GIS-based tools for optimising municipal solid waste collection and transportation routes. *International Journal of Environment and Waste Management*, 32(4), 402-417, 2023. (HEC Y Category)
25. Fatima, S., Ash'aari, Z. H., Ramli, M. F., Sharaai, A. H., & Chaudhry, M. N. Selection of sanitary landfill site by integrated fuzzy AHP and GIS for Multan, Pakistan. *World Review of Science, Technology and Sustainable Development*, 19(1-2), 149-169, 2023. (HEC X Category)
26. Ijaz, S., Chaudhary, M. N., Ahmad, S. R., & Asim, R. M. Perception of Health Care Workers About Medical Waste Management Based on KAP Analysis. A Case Study of Tertiary Care Hospital Lahore, Pakistan. *Pakistan Journal of Scientific & Industrial Research Series A: Physical Sciences*, 66(3), 234-243, 2023. (HEC Y Category)
27. Zahid, H., & Jillani, H. (2023). Has Fintech Functioned as a Nudge for the SDGs Implementation? A Systematic Review. *International Journal of Business and Economic Affairs*, 8(4), 68-78. (HEC Y Category)

Book Chapters

1. Khan, M. R. & Aslam, S. Plant Morphological Traits of *Elettaria cardamomum*, Springer, 2023, Cardamom (*Elettaria cardamomum*): Production, Processing and Properties <https://doi.org/10.1007/978-3-031-35426-7> (Book Chapter)
2. Khan, M. R. and Aslam, S. Cardamom Safety, Springer, 2023, Cardamom (*Elettaria cardamomum*): Production, Processing and Properties <https://doi.org/10.1007/978-3-031-35426-7> (Book Chapter)
3. Khan, M. R. Effect of Processing on Cardamom Composition and Properties, Springer, 2023 Cardamom (*Elettaria cardamomum*): Production, Processing and Properties

<https://doi.org/10.1007/978-3-031-35426-7> (Book Chapter)

4. Tahir, U. & Khan, M. R. Cardamom-Based Phytosomes, Springer, 2023, Cardamom (*Elettaria cardamomum*): Production, Processing and Properties <https://doi.org/10.1007/978-3-031-35426-7> (Book Chapter)

National Conference Papers

1. Khan, M. R., Ashraf, A., Javed, Z. & Murtaza, G. Environmental Situation of Heavy Engineering Industry (Punjab Steel Industry), Islamic Society of Statistical Sciences (ISOSS) in Imperial College, Imperial College, Behria Town Lahore, 9-11 March 2023 (National Conference Paper)
2. Khan, M.R. Rana, H.S., Atique, T., Salim, S. & Fatima, U. Environmental Situation of Ravi Chemical Complex, Islamic Society of Statistical Sciences (ISOSS) in Imperial College, Imperial College, Behria Town Lahore, 9-11 March 2023 (National Conference Paper)
3. Khan, M.R. Role of Statistics in Framing Appropriate Strategy for Recovery of Pakistan Economy Islamic Society of Statistical Sciences (ISOSS) in Imperial College Imperial College, Behria Town Lahore, 9-11 March 2023 (National Conference Paper)
4. Khan, M.R., Ishaq, T., Zahid, S., Shafique, H. & Khalid, H. The Environmental situation of Diamond paint Industry (Private) Limited, Islamic Society of Statistical Sciences (ISOSS) in Imperial College Imperial College, Behria Town Lahore, 9-11 March 2023 (National Conference Paper)
5. Khan, M.R., Nawaz, B., Taha, M.A., Asad, A. & Khokhar, H. Minimizing the carbon footprint as well as the problems related to greenhouse gas emission by Asian Chemicals, Islamic Society of Statistical Sciences (ISOSS) in Imperial College, Imperial College, Behria Town Lahore, 9-11 March 2023 (National Conference Paper)
6. Khan, M.R., Shahid, K., Waseem, M. N. & Mustafa, A. Environmental Situation of Polymer Industry in Pakistan, Islamic Society of Statistical Sciences (ISOSS) in Imperial College, Imperial College, Behria Town Lahore, 9-11 March 2023 (National Conference Paper)

International Conference Paper

1. Khan, M. & Chaudhry, M. N. Flexibility of the EIA process to cater to urgent green projects in Pakistan, International Association for Impact Assessment IAIA 23 Kuching, Malaysia, 8-11 May 2023 (International Conference Paper)

Lahore School Working Papers / International Working Papers

1. Nadir, R., Fizza Batool, Huda Javed, Munir Ghazanfar, Soha Bashir, Huma Naeem 2023 Pauperization and migration: The continuing violence of Green Revolution in rural Punjab, Pakistan Geographien Sudasiens 15 Extended Abstracts der 13. Jahrestagung des AKSA (Working Paper)

MPhil Theses supervised (Completed)

1. Anna Rashid (candidate), Dr. Uzma Ashraf/Dr. M. Nawaz Ch. (supervisors), Modeling Climate Suitability for Wheat (*Triticum Aestivum* L.) Distribution in Pakistan by Maximum Entropy (Maxent) Approach, Environment, 2023 (Mphil thesis)
2. Aroosa Maqsood (candidate), Saadia Imran (Supervisor), Evaluation of occupational health and safety and process risk assessment of the industrial waste incinerator located in Lahore – A case study, MPhil Environmental Sciences and Policy, 2023 (Mphil thesis)
3. Bisma Nawaz (candidate), Dr. Uzma Ashraf/Dr. M. Nawaz Ch. (supervisors), Assessment of Climate Change Range Shift of Barley in Pakistan by Using Ecological Niche Models, Environment, 2023 (Mphil thesis)
4. Kainat Muniba (candidate), Dr. M. Nawaz Ch./Dr. Uzma Ashraf (supervisors), Climate Suitability Modelling of Miracle Tree (*Moringa Oleifera*) Distribution in Pakistan. Environment, 2023 (Mphil thesis)

5. Syeda Hafsa Arshad (candidate), Saadia Imran (Supervisor), Evaluation of occupational health and safety and process risk assessment of the industrial waste incinerator located in Kala Shah Kaku – A case study, MPhil Environmental Sciences and Policy, 2023 (Mphil thesis)
6. Tooba Sahar (candidate). Dr. Rahma Tamime (Supervisor), Optimization of thin fill composite nanofiltration membrane for the removal of heavy metals, MPhil Environmental Sciences and Policy, 2023 (Mphil thesis)
7. Uzma Bashrat (candidate), Dr. M. Nawaz Ch./ Dr. Salman Tariq (supervisors), Seasonal Variability of Aerosol Optical Properties and Assessment of Associated Health Risks in Pakistan Using Remote Sensing, Environment, 2023 (Mphil thesis)
8. Wajeeha Wajid (candidate), Dr. M. Nawaz Ch./Dr. Naqi Hussain (supervisors), Estimation and Health Risk Assessment of Selected Heavy Metals (Cd,Cr,Pb,Cu and Ni) in Children Toys, Environment, 2023 (Mphil thesis)

MPhil Theses supervised (Ongoing)

1. Alishba Zulfiqar Ali (candidate), Dr. M. Nawaz Ch. (supervisor), Evaluate and compare the performance of the activated, calcinated and sintered red mud processors for the removal of polyvinyl alcohol in textile-based water, Environment (Mphil thesis – Ongoing)
2. Jehanzeb (candidate), Dr. M. Nawaz Ch. (supervisor), Environment (Mphil thesis – Ongoing)
3. Maria Tariq (candidate), Dr. M. Nawaz Ch. (supervisor), Challenges Influencing The Occupational Health And Safety Of Migrant Workers In Construction Sector: A Qualitative Study In Ksa, Dubai And Oman, Environment (Mphil thesis – Ongoing)
4. Wasfa Shoukat (candidate), Dr. M. Nawaz Ch. (supervisor), Enhancing phenol removal from waste water through activated carbon and RSM optimiztaion, Environment (Mphil thesis – Ongoing)

Actual/On-going 2024 (Author/s, Title of Publication, Journal, Year)

HEC W Category/Impact Factor Journal Articles

1. Begum, S., Chaudhry, M. N., Qazi, A., Tariq, U., Evaluation of soil organic matter carbon and micronutrients in the high altitude rangeland Shimshal Pamir, 2024. (HEC W Category - Ongoing)
2. Jillani, H., Chaudhry, M.N. & Mudakkar, R. On-Campus Drinking Water Choices in the Pakistani Higher Education Sector, 2024. (HEC W Category - Planned)
3. Jillani, H., Chaudhry, M.N., Zahid, H. & Iqbal, M.N. The mediating role of stakeholders on green banking practices and bank's performance: the case of a developing nation, PLOS One, 2024 (HEC W Category - Submitted)
4. Khan, M., & Chaudhry, M. N. (2024). Evaluation of Environmental Impact Assessment legislation in Pakistan. Impact Assessment and Project Appraisal, 1-18. (Impact Factor - Accepted)
5. Khan, M., Chaudhry, M.N., Ahsan, M., Ahmad, R. (2024). ChatGPT and the future of Impact Assessment. Environmental Science and Policy (In review) (Impact Factor – Under Review)
6. Khan, M.R. Environmental Health and Safety Situation of Textile Industry of Pakistan Sustainability, 2024 (HEC W Category - Submitted)
7. Khan, M.R. Environmental Situation of Fauji Fertilizer Company with Special Reference to Health, Safety and Sustainability, Discrete Dynamics in Nature and Society, 2024 (HEC W Category - Submitted)
8. Khan, M.R. Environmental Situation of Fauji Fertilizer Company with Special Reference to Health, Safety and Sustainability, Sustainability, 2024 (HEC W Category - Submitted)
9. Khan, M.R. Environmental Situation of Nishat Mills Ltd. with Special Reference to Health and Safety, Discrete Dynamics in Nature and Society, 2024 (HEC W Category - Submitted)
10. Khan, M.R. Health and Safety Situation of Industrial Sector of Pakistan with Special Reference to Sundar Industrial Estate, Lahore, Discrete Dynamics in Nature and Society, 2024 (HEC W

Category - Submitted)

11. Khan, M.R. Pollution from Chemical Industries such as INTRA: A Threat to Environmental Sustainability, Sustainability, 2024 (HEC W Category - Submitted)
12. Naseer, R., & Chaudhary, M. N., Assessing Forest Fire Likelihood Using Maximum Entropy-Based Model in Khyber Pakhtunkhwa, Pakistan (HEC W Category - Ongoing)
13. Naseer, R., & Chaudhary, M. N., Understanding Public Perspectives on Urban Green Space Conservation: Evaluating Ecosystem Services, Disservices, and Willingness-to-Pay. (HEC W Category - Planned)
14. Naseer, R., Ashraf, U., & Chaudhary, M. N., Identifying High Priority Areas for the Conservation of White-Backed Vultures (*Gyps bengalensis*) Using Ecological Niche Model Analysis (HEC W Category - Planned)
15. Naseer, R., Tariq, S., & Chaudhary, M. N., Spatiotemporal Clustering, Hotspot Analysis and Fire Risk Assessment in the Northern Region of Khyber Pakhtunkhwa (KPK), Pakistan, Land Degradation and Development, 2024. (HEC W Category - Submitted)

HEC X and Y Category Journal Articles

40. Rashid, A., Chaudhary, M. N., & Naseer, R., Modeling Climate Suitability for Wheat (*Triticum aestivum* L.) Distribution in Pakistan by Maximum Entropy (Maxent) Approach, Proceedings of the Pakistan Academy of Sciences: B Life and Environmental Sciences, 2024 (HEC Y Category - Submitted)

International Conference Papers

1. Khan, M. & Chaudhry, M.N. Consideration of climate change in EIA of Pakistan, International Association for Impact Assessment IAIA 24, Dublin, Ireland, 24-27 April, 2024 (International Conference Paper – Accepted)

MPhil Theses supervised (Ongoing)

1. Alishba Zulfiqar Ali (candidate), Dr. M. Nawaz Ch. (supervisor), Evaluate and compare the performance of the activated, calcinated and sintered red mud processors for the removal of polyvinyl alcohol in textile-based water, Environment (Mphil thesis – Ongoing)
2. Dua Fatima(candidate), Dr. M. Nawaz Ch. (supervisor), Identification of heavy metals, steroids and their health risk assessment in local manufactured face wash of Pakistan. Environment (Mphil thesis – Ongoing)
3. Jehanzeb (candidate), Dr. M. Nawaz Ch. (supervisor), Environment (Mphil thesis – Ongoing)
4. Mahnoor Shujait (candidate), Dr. M. Nawaz Ch. (supervisor), Assessment of hydroquinone and steroids and their health risk assessment in local manufactured whitening creams of Pakistan Environment (Mphil thesis – Ongoing)
5. Maria Tariq (candidate), Dr. M. Nawaz Ch. (supervisor), Challenges Influencing The Occupational Health And Safety Of Migrant Workers In Construction Sector: A Qualitative Study In Ksa, Dubai And Oman, Environment (Mphil thesis – Ongoing)
6. Saba Zobair (candidate), Saadia Imran (supervisor), Environment (Mphil thesis – Ongoing)
7. Wasfa Shoukat (candidate), Dr. M. Nawaz Ch. (supervisor), Enhancing phenol removal from waste water through activated carbon and RSM optimiztaion, Environment (Mphil thesis – Ongoing)