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[*https://archive.pakistantoday.com.pk/2020/11/28/81-pakistanis-named-in-top-2pc-scientists-across-the-globe/*](https://archive.pakistantoday.com.pk/2020/11/28/81-pakistanis-named-in-top-2pc-scientists-across-the-globe/)

[*https://www.researchgate.net/profile/Riffat-Malik-2*](https://www.researchgate.net/profile/Riffat-Malik-2)

**EDUCATION**

*Jan 1999 – Jan 2003* PhD, University of Reading, Reading, United Kingdom

**EMPLOYMENT HISTORY**

|  |  |
| --- | --- |
| *March, 2016- Present* | Tenured Professor on TTS, Department of Environmental Sciences Quaid-i-Azam University  Islamabad, Pakistan |
| *September 2011 – April, 2020*  *July 2018-March 2019*  *September 2011 – March, 2016* | Chairperson, Quaid-i-Azam University, Department of Environmental Sciences  Islamabad, Pakistan  Visiting Professor, [Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, Guangzhou, China](http://english.gig.cas.cn/)  Tenured Associate Professor on TTS and Chairperson  Quaid-i-Azam University, Department of Environmental Sciences  Islamabad, Pakistan |
| *Jan 2010-Oct 2010* | Postdoctoral research fellowship  Lancaster University, Lancaster Environmental Centre  Lancaster, UK |
| *Dec 2004 – Jun 2011* | Assistant Professor  Quaid-i-Azam University, Department of Plant Science  Islamabad, Pakistan |
| *Feb 2003-Dec 2003* | Senior Assistant Professor  Fatima Jinnah Women University, Department of Environmental Sciences  Rawalpindi, Pakistan |
| *Mar 2001-March 2002* | Research Fellow  University of Turku, Finland, Department of Geography, Finland |
| *Mar 1997-Sept 1997* | Research Officer  National Institute of Health, Islamabad, Pakistan |

**TEACHING / RESEARCH**

***Courses Taught:*** Plant Ecology, Animal Ecology, Fundamental of Environmental Biology, Ecotoxicology, Air and Noise Pollution, Remote Sensing & GIS, Multivariate Analysis in Ecology, Fresh Water Ecology, Spatial Analysis in Ecology.

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| --- |
| ***Research Thesis Supervised:***  M.Sc: **04** M.Phil: >80 PhD : **15** |

## ***Research Statistics***

|  |  |
| --- | --- |
| *Researcher ID* | Web of Science ResearcherID  [ABF-4886-2020](https://publons.com/researcher/ABF-4886-2020/)  <https://orcid.org/0000-0003-4345-6000>  [Scopus ID: 8635303900](http://www.scopus.com/inward/authorDetails.url?authorID=8635303900&partnerID=MN8TOARS) |
| *Impact Factor (IF)* | **>1000** |
| *Publications with IF* | **>200** |
| *Total Citations* | **7040** [ABF-4886-2020](https://publons.com/researcher/ABF-4886-2020/) **dated 08/02/2021.** |
| h-index | **40**  **dated 08/02/2021.** |
| *Books edited/written; Chapters* | **02; 10** |

## **RESEARCH INTEREST**

## Occurrence, spatial and temporal trends, atmospheric transport and source identification of inorganic and Persistent Organic Pollutants [POPs] in aquatic and terrestrial resources of Pakistan; their effects on form and functionality of biota, and ecological systems; identification and development of biological indicators/markers at community, population and species level to assess the ecological integrity and health conditions of an ecosystem.

## **RESEARCH PUBLICATION HIGHLIGHTS**

## ***ISI Impact Factor Journal Publications \* corresponding Author:***

## ***2021***

1. SM Zainab, M Junaid, MYA Rehman, M Lv, L Yue, N Xu, RN Mali\*k (2021). First insight into the occurrence, spatial distribution, sources, and risks assessment of antibiotics in groundwater from major urban-rural settings of Pakistan. Science of The Total Environment 791, 148298
2. R Riaz, RN Malik\*, CA de Wit (2021). Soil-air partitioning of semivolatile organic compounds in the Lesser Himalaya region: Influence of soil organic matter, atmospheric transport processes and secondary emissions. Environmental Pollution, 118006
3. Z Ali, A Mohammad, Y Riaz, A Shakeel, KY Khan, UM Quraishi, RN Malik (2021). Heavy metal phyto-accretion, biochemical responses and non-carcinogenic human health risks of genetically diverse wheat genotypes cultivated with sewage of municipal origin. International Journal of Phytoremediation 23 (6), 619-631
4. M Tahir, MYA Rehman, RN Malik\* (2021). [Heavy metal-associated oxidative stress and glutathione s-transferase polymorphisms among E-waste workers in Pakistan](javascript:void(0)). Environmental Geochemistry and Health, 1-18.
5. R Riaz, CA de Wit, RN Malik\* (2021). [Persistent organic pollutants (POPs) in fish species from different lakes of the lesser Himalayan region (LHR), Pakistan: The influence of proximal sources in distribution of POPs](javascript:void(0)). Science of The Total Environment 760, 143351
6. S Akbar, Z Ali, S Hussain, A Mohammad, Y Riaz, A Shakeel, I Ahmad, Said Akbar, Zeshan Ali, Sadam Hussain, Ashiq Mohammad, Yousaf Riaz, Adnan Shakeel, Ijaz Ahmad, Mussarat M, Malik RN, Khan KY, Sohail M, Quraishi UM (2021). [Metal accumulation potential, human health risks, and yield attributes of hundred bread wheat genotypes on irrigation with municipal and remediated wastewater](javascript:void(0)).Environmental Science and Pollution Research, 1-15
7. Hina, N., Riaz, R., Ali, U., Rafique, U., & Malik, R. N\*. A Quantitative Assessment and Biomagnification of Mercury and Its Associated Health Risks from Fish Consumption in Freshwater Lakes of Azad Kashmir, Pakistan. Biological Trace Element Research, 1-17. Published: Jan 2021,

***2020***

1. Zainab, S. M., Junaid, M., Xu, N., & **Malik, R. N\*.** (2020). Antibiotics and antibiotic resistant genes (ARGs) in groundwater: A global review on dissemination, sources, interactions, environmental and human health risks. Water Research, Volume: 187, Issue: 116455. December 2020 , **IF: 9.639**
2. Ali, Z., Mohammad, A., Riaz, Y., Shakeel, A., Khan, K. Y., Quraishi, U. M., **& Malik, R. N\*.** (2020). Heavy metal phyto-accretion, biochemical responses and non-carcinogenic human health risks of genetically diverse wheat genotypes cultivated with sewage of municipal origin. International Journal of Phytoremediation, Page: 1-13. Published: Nov 2020 , **IF: 2.57**
3. Riaz, R., de Wit, C. A., & **Malik, R. N\*.** (2020). Persistent organic pollutants (POPs) in fish species from different lakes of the lesser Himalayan region (LHR), Pakistan: The influence of proximal sources in distribution of POPs. Science of The Total Environment, Volume:760, Issue: 143351. Published: Oct 2020 , **IF: 6.419**
4. Salim, Z., Khan, M. U., & **Malik, R. N\*.** (2020). Concentration, distribution and association of heavy metals in Multi-matrix samples of Himalayan foothill along elevation gradients. Environmental Earth Sciences, Volume: 79, Issue: 20, Page: 1-15. Published: Oct 2020 **, IF: 2.253**
5. Khan, H. K., Rehman, M. Y. A., & **Malik, R. N\*.** (2020). Fate and toxicity of pharmaceuticals in water environment: An insight on their occurrence in South Asia. Journal of Environmental Management, Volume: 271, Issue: 111030. Published: Oct 2020 **, IF: 5.708**
6. Atta, U., Hussain, M., & **Malik, R. N\*.** (2020). Environmental impact assessment of municipal solid waste management value chain: A case study from Pakistan. Waste Management & Research, Volume: 38, Issue: 12, Page: 1379-1388. Published: Aug 2020, **IF: 2.867**
7. Geng, X., Mo, Y., Li, J., Zhong, G., Tang, J., Jiang, H., ... & Zhang, G. (2020). Source apportionment of water-soluble brown carbon in aerosols over the northern South China Sea: Influence from land outflow, SOA formation and marine emission. Atmospheric Environment, Volume; 229, Issue: 117484. Published: May 2020 **, IF: 4.639**
8. Tasneem, F., Abbasi, N. A., Chaudhry, M. J. I., Mashiatullah, A., Ahmad, S. R., Qadir, A., & **Malik, R. N\***. (2020). Dietary proxies (δ15N, δ13C) as signature of metals and arsenic exposure in birds from aquatic and terrestrial food chains. Environmental Research, Volume: 183, Issue: 109191. Published: April 2020 **, IF: 5.735**
9. Waheed, S., Khan, M. U., Sweetman, A. J., Jones, K. C., Moon, H. B., & **Malik, R. N\***. (2020). Exposure of polychlorinated naphthalenes (PCNs) to Pakistani populations via non-dietary sources from neglected e-waste hubs: A problem of high health concern. Environmental Pollution, Volume: 259, Issue: 113838. Published: April 2020 **, IF: 6.939**
10. Rehman, M. Y. A., van Herwijnen, M., Krauskopf, J., Farooqi, A., Kleinjans, J. C**., Malik, R. N\***., & Briedé, J. J. (2020). Transcriptome responses in blood reveal distinct biological pathways associated with arsenic exposure through drinking water in rural settings of Punjab, Pakistan. Environment International, Volume: 135, Issue: 105403. Published: Feb 2020, **, IF: 8.925**
11. Kanwal, S., Abbasi, N. A., Chaudhry, M. J. I., Ahmad, S. R., & **Malik, R. N\***. (2020). Oxidative stress risk assessment through heavy metal and arsenic exposure in terrestrial and aquatic bird species of Pakistan. Environmental Science and Pollution Research, Volume 27, Issue 11, Page: 1-15. Published: Jan 2020 **, IF: 3.306**

**2019\_\_\_\_\_**

1. Saeed, M., **Malik, R. N**., & Kamal, A. (2020). Fluorosis and cognitive development among children (6–14 years of age) in the endemic areas of the world: A review and critical analysis. Environmental Science and Pollution Research, Volume: 27, Issue: 3, Page: 2566-2579. Published: Dec 2019 **, IF: 3.306**
2. Jadoon, WA; **Malik, R. N.** (2019) Geochemical approach for heavy metals in suburban agricultural soils of Sialkot, Pakistan. SN Applied Sciences, Volume: 1, Issue: 2, Page 161. Published: Aug 2019,
3. Sultan, M., Waheed, S., Ali, U., Sweetman, A. J., Jones, K. C., **& Malik, R. N\***. (2019). Insight into occurrence, profile and spatial distribution of organochlorine pesticides in soils of solid waste dumping sites of Pakistan: Influence of soil properties and implications for environmental fate. Ecotoxicology and environmental safety, Volume: 170, Page: 195-204. Published: April 2019 **, IF: 4.966**
4. Samaraweera DND, Xin L, Zhong G., Priyadarshana T, **Malik, R. N.** Zhang G, Khorram M, Zhu, Peng X (2019). Antibiotics in two municipal sewage treatment plants in Sri Lanka: Occurrence, consumption and removal efficiency. Emerging Contaminants Volume: 5, Page: 272-278. Published: April 2019 **, IF: 4.84**
5. Mao, S; Zhang, G; Zhao, S; Li, J; Liu, X; Cheng, Z; Zhong, G; **Malik, R. N.**; Liu, X (2019). High abundance of unintentionally produced tetrachlorobiphenyls (PCB47/48/75, 51, and 68) in the atmosphere at a regional background site in East China. Environmental Science & Technology, Volume: 53, Issue: 7, Page: 464-3470. Published: Mar 2019 **, IF: 7.864**
6. Riaz, R; Ali, U ; Li, J ; Zhang, G ; Alam, K ; Sweetman, AJ ; Jones, KC ; **Malik, R. N\*.**. Assessing the level and sources of Polycyclic Aromatic Hydrocarbons (PAHs) in soil and sediments along Jhelum riverine system of lesser Himalayan region of Pakistan. CHEMOSPHERE Volume: 216 Pages: 640-652. Published: Mar 2019 **, IF: 5.705**

**2018**

1. Ansari, Sundas; Waheed, Sidra; Ali, Usman; **Malik, R. N\*.** (2018). Assessing residual status and spatial variation of current-use pesticides under the influence of environmental factors in major cash crop growing areas of Pakistan . CHEMOSPHERE Volume: 212 Pages: 486-496 Published: DEC 2018 **, IF: 5.705**
2. Ali, Zeshan; Razi-ul-Hasnain, Raja; Quraishi, Umar Masood, **Malik, R. N.**, (2018). Heavy metal tolerance and biochemical attributes of selected wheat geno types on irrigation with industrial waste waters. PAKISTAN JOURNAL OF AGRICULTURAL SCIENCES Volume: 55 Issue: 4 Pages: 819-832 Published: DEC 2018 **, IF: 0.276**
3. [Ali, U](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=7FreS8ucjQcXsNDEbA4&field=AU&value=Ali,%20U&ut=654562&pos=1&excludeEventConfig=ExcludeIfFromFullRecPage); [Sweetman, AJ](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=7FreS8ucjQcXsNDEbA4&field=AU&value=Sweetman,%20AJ&ut=171581&pos=2&excludeEventConfig=ExcludeIfFromFullRecPage) ; [Jones, KC](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=7FreS8ucjQcXsNDEbA4&field=AU&value=Jones,%20KC&ut=11461&pos=3&excludeEventConfig=ExcludeIfFromFullRecPage); [**Malik, R. N.**](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=7FreS8ucjQcXsNDEbA4&field=AU&value=Malik,%20RN&ut=165088&pos=4&excludeEventConfig=ExcludeIfFromFullRecPage)  ,(2018). Accounting for water levels and black carbon-inclusive sediment-water partitioning of organochlorines in Lesser Himalaya, Pakistan using two-carbon model. ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH Volume: 25 Issue: 25 Pages: 24653-24667 Published: SEP 2018, **, IF: 3.306**
4. Sarwar, F., **Malik, R. N.,** Chow, C. W., & Alam, K. (2018). Occupational exposure and consequent health impairments due to potential incidental nanoparticles in leather tanneries: An evidential appraisal of south Asian developing countries. Environment international, Volume: 117, Page: 164-174. Published; Aug 2018 **, IF: 8.925**
5. Hussain, M, **Malik, R. N\*.** ,Taylor, A (2018)..Environmental profile analysis of particleboard production: a study in a Pakistani technological condition. INTERNATIONAL JOURNAL OF LIFE CYCLE ASSESSMENT  Volume: 23   Issue: 8   Pages: 1542-1561   Published: AUG 2018 **, IF: 4.842**
6. [Ali, Zeshan; Mujeeb-Kazi, Abdul; Quraishi, Umar Masood; **Malik, R. N\*.**,(2018). Deciphering adverse effects of heavy metals on diverse wheat germplasm on irrigation with urban wastewater of mixed municipal-industrial origin. ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH  Volume: 25   Issue: 19   Special Issue: SI   Pages: 18462-18475  Published: JUL 2018](http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=4&SID=7A9PVmIaujBmgLmGTO1&page=1&doc=3) **, IF: 3.306**
7. [Ali, Usman; Riaz, Rahat; Sweetman, Andrew James; Li Jun, Zhang, Gan, **Malik, R. N\*.** (2018). Role of black carbon in soil distribution of organochlorines in Lesser Himalayan Region of Pakistan. ENVIRONMENTAL POLLUTION  Volume: 236   Pages: 971-982   Published: MAY 2018](http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=4&SID=7A9PVmIaujBmgLmGTO1&page=1&doc=4), **, IF: 6.939**
8. Ali, Usman; Sweetman, Andrew James; Riaz, Rahat;Li, Jun, Zhang, Gan Jones, KC, **Malik, R. N\*.**. (2018). Sedimentary black carbon and organochlorines in Lesser Himalayan Region of Pakistan: Relationship along the altitude. SCIENCE OF THE TOTAL ENVIRONMENT  Volume: 621   Pages: 1568-1580   Published: APR 2018, **, IF: 6.419**
9. Hamid, Naima; Syed, Jabir Hussain; Junaid, Muhammad; Mahmood, A (Mahmood, Adeel, Li, Jun, Zhang, Gan **Malik, R. N\*.** (2018). Elucidating the urban levels, sources and health risks of polycyclic aromatic hydrocarbons (PAHs) in Pakistan: Implications for changing energy demand. SCIENCE OF THE TOTAL ENVIRONMENT  Volume: 619   Pages: 165-175   Published: APR 2018 **, IF: 6.419**
10. [Nisar, Faria; Mirza, Muhammad Aslam; **Malik, R. N.** (2018). Evaluation of phytochemical and in vitro antioxidant activity of water and acetone extracts of selected vegetables. PAKISTAN JOURNAL OF PHARMACEUTICAL SCIENCES  Volume: 31   Issue: 2   Pages: 575-579   Published: MAR 2018](http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=4&SID=7A9PVmIaujBmgLmGTO1&page=1&doc=7) **, IF: 1.103**
11. [Nazeer, Summya; Khan, Muhammad Usman; **Malik, R. N\*.** (2018). Phytoplankton Spatio-temporal dynamics and its relation to nutrients and water retention time in multi-trophic system of Soan River, Pakistan. ENVIRONMENTAL TECHNOLOGY & INNOVATION  Volume: 9   Pages: 38-50   Published: FEB 2018](http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=4&SID=7A9PVmIaujBmgLmGTO1&page=1&doc=8) **, IF: 3.404**
12. [Junaid, Muhammad; Syed, Jabir Hussain; Abbasi, Naeem Akhtar; **Malik, R. N\*.** , (2018). Status of indoor air pollution (IAP) through particulate matter (PM) emissions and associated health concerns in South Asia. CHEMOSPHERE  Volume: 191   Pages: 651-663   Published: JAN 2018](http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=4&SID=7A9PVmIaujBmgLmGTO1&page=1&doc=9) **, IF: 5.705**
13. [Ali, Usman; Sweetman, Andrew James; Jones, Kevin C.; **Malik, R. N\*.** , (2018). Higher atmospheric levels and contribution of black carbon in soil-air partitioning of organochlorines in Lesser Himalaya. CHEMOSPHERE  Volume: 191   Pages: 787-798   Published: JAN 2018](http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=4&SID=7A9PVmIaujBmgLmGTO1&page=1&doc=10) **, IF: 5.705**

**2017**

1. Mehreen I; Syed, Jabir Hussain; Breivik, Knut; Muhammad Jamshed Iqbal, Li, Jun, Zhang, Gan, **Malik, R. N\*.** (2017). E-Waste Driven Pollution in Pakistan: The First Evidence of Environmental and Human Exposure to Flame Retardants (FRs) in Karachi City. ENVIRONMENTAL SCIENCE & TECHNOLOGY Volume: 51 Issue: 23 Pages: 13895-13905 Published: DEC 2017 **, IF: 7.864**
2. [Waheed, S](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=8CXGpERwRUetkWEOkIO&field=AU&value=Waheed,%20S&ut=2651585&pos=1&excludeEventConfig=ExcludeIfFromFullRecPage) ; [Halsall, C](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=8CXGpERwRUetkWEOkIO&field=AU&value=Halsall,%20C&ut=489202&pos=2&excludeEventConfig=ExcludeIfFromFullRecPage) ; [Sweetman, AJ](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=8CXGpERwRUetkWEOkIO&field=AU&value=Sweetman,%20AJ&ut=171581&pos=3&excludeEventConfig=ExcludeIfFromFullRecPage) ; [Jones, KC](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=8CXGpERwRUetkWEOkIO&field=AU&value=Jones,%20KC&ut=11461&pos=4&excludeEventConfig=ExcludeIfFromFullRecPage) ; **Malik, R. N\*.** ( 2017). Pesticides contaminated dust exposure, risk diagnosis and xposure markers in occupational and residential settings of Lahore, Pakistan. ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY Volume: 56 Pages: 375-382 Published: DEC 2017 **, IF: 3.292**
3. **Malik, R. N\*.**; Hashmi, Muhammad Zaffar , (2017). Multivariate statistical techniques for the evaluation of surface water quality of the Himalayan foothills streams, Pakistan. APPLIED WATER SCIENCE Volume: 7 Issue: 6 Pages: 2817-2830 Published: OCT 2017 **, IF:**
4. [Khan, MU](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=8CXGpERwRUetkWEOkIO&field=AU&value=Khan,%20MU&ut=1005968&pos=1&excludeEventConfig=ExcludeIfFromFullRecPage) ; [Besis, A](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=8CXGpERwRUetkWEOkIO&field=AU&value=Besis,%20A&ut=2813255&pos=2&excludeEventConfig=ExcludeIfFromFullRecPage) ; [Li, J](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=8CXGpERwRUetkWEOkIO&field=AU&value=Li,%20J&ut=82893&pos=3&excludeEventConfig=ExcludeIfFromFullRecPage) ; [Zhang, G](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=8CXGpERwRUetkWEOkIO&field=AU&value=Zhang,%20G&ut=45323&pos=4&excludeEventConfig=ExcludeIfFromFullRecPage); **Malik, R. N\*.**. (2017). New insight into the distribution pattern, levels, and risk diagnosis of FRs in indoor and outdoor air at low- and high-altitude zones of Pakistan: Implications for sources and exposure. CHEMOSPHERE Volume: 184 Pages: 1372-1387 Published: OCT 2017. **IF: 5.705**
5. [Junaid, M](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=8CXGpERwRUetkWEOkIO&field=AU&value=Junaid,%20M&ut=3527520&pos=1&excludeEventConfig=ExcludeIfFromFullRecPage) ; [Hashmi, MZ](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=8CXGpERwRUetkWEOkIO&field=AU&value=Hashmi,%20MZ&ut=538603&pos=2&excludeEventConfig=ExcludeIfFromFullRecPage); [Tang, YM](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=8CXGpERwRUetkWEOkIO&field=AU&value=Tang,%20YM&ut=3423056&pos=3&excludeEventConfig=ExcludeIfFromFullRecPage) ; **Malik, R. N\*.**; [Pei, DS](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=8CXGpERwRUetkWEOkIO&field=AU&value=Pei,%20DS&ut=1119467&pos=5&excludeEventConfig=ExcludeIfFromFullRecPage) . (2017). Potential health risk of heavy metals in the leather manufacturing industries in Sialkot, Pakistan. SCIENTIFIC REPORTS  Volume: 7     Article Number: 8848   Published: AUG 18 2017 **IF: 4.576**
6. Junaid, Muhammad; **Malik, R. N\*.**; Pei, De-Sheng (2017). Health hazards of child labor in the leather products and surgical instrument manufacturing industries of Sialkot, Pakistan. ENVIRONMENTAL POLLUTION  Volume: 226   Pages: 198-211   Published: JUL 2017. **IF: 6.939**
7. [Rehman, MYA](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=8CXGpERwRUetkWEOkIO&field=AU&value=Rehman,%20MYA&ut=7972811&pos=1&excludeEventConfig=ExcludeIfFromFullRecPage) ; [Kamal, A](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=8CXGpERwRUetkWEOkIO&field=AU&value=Kamal,%20A&ut=1509435&pos=2&excludeEventConfig=ExcludeIfFromFullRecPage); [Taqi, MM](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&SID=8CXGpERwRUetkWEOkIO&field=AU&value=Taqi,%20MM&ut=4320473&pos=3&excludeEventConfig=ExcludeIfFromFullRecPage); **Malik, R. N\*.** .Tracing biomarker of PAH-exposure and susceptibility factor (GSTM-polymorphism) among cancer patients in Pakistan. CHEMOSPHERE Volume: 178 Pages: 384-390 Published: JUL 2017 **IF: 5.705**
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29. Qadir A, **Malik, R. N**, Ahmed T, Sabir AM (2009). Patterns of Fish Assemblage and Distribution under the Influence of Environmental Variables in NullahAik and NullahPalkhu – tributaries of River Chenab, Pakistan. Biological Diversity and Conservation, Volume 2, Page: 110-124. Published: 2009, **IF: 3.097**
30. Ullah R, **Malik, R. N** and Qadir A (2009). Assessment of groundwater contamination in an industrial City Sialkot, Pakistan. African Journal of Environmental Science and Technology, Volume: 3, Page: 429-446. Published: 2009,
31. Qadir A, **Malik, R. N** and Husain SZ (2008). Spatio-temporal variations in water quality of NullahAik-tributary of the River Chenab, Pakistan. Environmental Monitoring and Assessment, Volume: 140, Page: 43-59. Published: 2008, **IF: 2.273**
32. **Malik, R. N\***, Husain SZ, (2008). Linking spectral reflectance information and the ecological vegetation Communities: A Multivariate Approach. Pakistan Journal of Botany Volume: 40, Issue:1, Page: 337-349.  Published: 2008, **IF: 0.73**
33. Husain ZS **Malik, R. N\***, Javaid M, Bibi S (2008). Ethnobotanical properties and uses of medicinal plants of Morgha Biodiversity Park, Rawalpindi. Pakistan Journal of Botany Volume: 40, Issue: 5, Page 1897-1911.  Published: 2008, **IF: 0.73**
34. Bibi S, Husain SZ, **Malik, R. N** (2008). Pollen analysis and heavy metals detection in honey samples from seven selected countries. Pakistan Journal of Botany Volume: 40, Issue:2, Page: 507-516. Published: 2008, **IF: 0.73**
35. **Malik, R. N\***, Husain SZ (2007). Broussonetiapapyrifera [L.] L’Hér. ex Vent.: An Environmental Constraint on the Himalayan Foothills vegetation. Pakistan Journal of Botany, Volume:39, Issue: 4, Page: 1045-1053. Published: 2007, **IF: 0.73**
36. **Malik, R. N\***, Husain SZ, (2006). Spatial distribution of ecological communities using remotely sensed data. Pakistan Journal of Botany, Volume: 38, Issue: 4, Page: 571-582. Published: 2006, **IF: 0.73**
37. **Malik, R. N\***, Husain SZ (2006). Land-cover mapping: A remote sensing approach. Pakistan Journal of Botany, Volume: 38, Issue: 3, Page: 559-570. Published: 2006, **IF: 0.73**
38. **Malik, R. N\***, Husain SZ (2006). Classification and ordination of vegetation communities of the Lohibehr reserve forest and its surrounding areas, Rawalpindi, Pakistan.  Pakistan Journal of Botany, Volume: 38, Issue: 3, Page: 543-558. Published:2006, **IF: 0.73**
39. Saqib Z, **Malik, R. N\***, Husain SZ (2006). Modelling potential distribution of Taxuswallichiana in Palas valley, Pakistan. Pakistan Journal of Botany, Volume: 38, Issue: 3, Page: 539-542. Published: 2006, **IF: 0.73**
40. Toivonen T, Kalliola K, Ruokolainen K, **Malik, R. N** (2006). Across-path DN gradient challenge the Landsat TM interpretations in the Amazonian lowlands. Remote Sensing of Environment. Volume: 100, Page: 550-562. Published: 2006, **IF: 9.626**
41. Salovaara KJ, Thesseler S **Malik, R. N**, Tuomisto H (2005).Clasification of Amazonia primary rain forest vegetation using Landsat ETM+ satellite imagery. Remote Sensing of Environment, Volume:97, Page: 39-51. Published: 2005, **IF: 9.626**
42. **Malik, R. N\***, Husain SZ (2005). Assessment of image value gradient problem in the Amazon Landsat TM data. Pakistan Journal of Botany, Volume: 37, Issue: 4, Page: 843-852. Published: 2005, **IF: 0.73**

## ***Review articles in ISI recognized journals***

|  |
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| 1. M Saeed, UM Quraishi, RN Malik (2021). [Arsenic uptake and toxicity in wheat (Triticum aestivum L.): An review of multi-omics approaches to identify tolerance mechanisms](javascript:void(0)). Food Chemistry, 129607 |
| 1. Zainab, S. M., Junaid, M., Xu, N., & **Malik, R. N.** (2020). Antibiotics and antibiotic resistant genes (ARGs) in groundwater: A global review on dissemination, sources, interactions, environmental and human health risks. Water Research, Volume: 187, Issue: 116455. December 2020 , **IF: 9.639** |
| 1. Khan, H. K., Rehman, M. Y. A., & **Malik, R. N.** (2020). Fate and toxicity of pharmaceuticals in water environment: An insight on their occurrence in South Asia. Journal of Environmental Management, Volume: 271, Issue: 111030. Published: Oct 2020 , IF: **5.708** |
| 1. Saeed, M., **Malik, R. N.,** & Kamal, A. (2020). Fluorosis and cognitive development among children (6–14 years of age) in the endemic areas of the world: A review and critical analysis. Environmental Science and Pollution Research, Volume: 27, Issue: 3, Page: 2566-2579. Published: Dec 2019 , **IF: 3.306** |
| 1. Sarwar, F., **Malik, R. N.,** Chow, C. W., & Alam, K. (2018). Occupational exposure and consequent health impairments due to potential incidental nanoparticles in leather tanneries: An evidential appraisal of south Asian developing countries. Environment international, Volume: 117, Page: 164-174. Published; Aug 2018 , **IF: 8.925** |
| 1. Ali, Usman; Sweetman, Andrew James; Riaz, Rahat; Jones, KC ; **Malik, R. N.** .2017.Organohalogenated contaminants (OHCs) in high-altitude environments: A review and implication for a black carbon relationship. CRITICAL REVIEWS IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY Volume: 47 Issue: 13 Pages: 1143-1190 Published: 2017 **IF: 3.356** |
| 1. Hamid, Naima; Syed, Jabir Hussain; Kamal, A ; Aziz, F ; Tanveer, S ; Ali, U ; Cincinelli, A ; Katsoyiannis, A ; Yadav, IC; Li, J ; **Malik, R. N**. ; Zhang, G. 2017. A Review on the Abundance, Distribution and Eco-Biological Risks of PAHs in the Key Environmental Matrices of South Asia. REVIEWS OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, VOL 240 Book Series: Reviews of Environmental Contamination and Toxicology Volume: 240 Pages: 1 **IF: 5.767** |
| 1. Iqbal, M ; Syed, JH ; Katsoyiannis, A ; **Malik, R. N**.; Farooqi, A ; Butt, A ; Li, J ., Zhang, G ; Cincinelli, A ; Jones, KC. (2017). Legacy and emerging flame retardants (FRs) in the freshwater ecosystem: A review. ENVIRONMENTAL RESEARCH Volume: 152 Pages: 26-42 Published: JAN 2017**, IF: 5.735** |
| 1. Junaid, M, Hashmi MZ, **Malik, R. N**.(2016). Toxicity and oxidative stress induced by chromium in workers exposed from different occupational settings around the globe: A review. Environmental Science and Pollution Research. Volume: 23, Issue: 20, Page: 20151-20167. Published: Oct 2016, **IF: 3.306** |
| 1. Abbasi, N. A., **Malik, R. N,** A. Frantz and V. L. B. Jaspers (2016). A review on current knowledge and future prospects of organohalogen contaminants (OHCs) in Asian birds. Science of the Total Environment 542: 411-426. Published: May 2016, **IF: 6.419** |
| 1. Iqbal M, Breivik K, Syed JH ,**Malik R. N ,** Li J, Zhang G, Jones KC [2015]. Emerging issue of e-waste in Pakistan: A review of status, research needs and data gaps. Environmental Pollution, Volume: 207, Page: 308–318. Published: Dec 2015, **IF: 6.939** |
| 1. Kamal, A , Cincinelli, A , Martellini, T, **Malik, R. N** (2015). A review of PAH exposure from the combustion of biomass fuel and their less surveyed effect on the blood parameters. ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, Volume: 22, Issue: 6, Page: 4076-4098. Published: Mar 2015, **IF: 3.306** |
| 1. Ajmal, A., Majeed, I., **Malik**, **R. N.,** Idriss, H., & Nadeem, M. A. (2015). Principles and mechanisms of photocatalytic dye degradation on TiO 2 based photocatalysts: a comparative overview. Rsc Advances, Volume: 4, Issue: 70, Page: 37003-37026. Published Mar 2015, **IF: 3.070** |
| 1. Eqani S-A-M-A-S, **Malik, R. N,** Alamdar A, Faheem H [2012]. Status of Organochlorine Contaminants in the Different Environmental Compartments of Pakistan: A Review on Occurrence and Level. Bulletin of Environmental Contamination and Toxicology, Volume: 88, Issue 3, Page: 303-10. Published Mar 2012, **IF: 1.707** |

***Comments and Commentaries in peer reviewed ISI recognized journals***

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| 1. Kamal A, **Malik RN**[2014]. [Comments on “Polycyclic aromatic hydrocarbons (PAHs) in urban surface dust of Guangzhou, China: Status, sources and human health risk assessment”](http://www.sciencedirect.com/science/article/pii/S0048969714001247). Science of The Total Environment, 478, pg.200 |
| 1. Kamal A**, Malik RN** [2014]. Concerning the manuscript “Burnt sugarcane harvesting: Particulate matter exposure and the effects on lung function, oxidative stress, and urinary 1-hydroxypyrene”.*Science of The Total Environment*, *479–480*, *Pg: 319* |
| 1. Kamal A, **Malik RN**[2014]. Concerning “Haematological, immunological, and cardiovascuale changes in individuals residing in a polluted city of India: A study in Dehli”. International Journal of Hygiene and Environmental Health, <http://dx.doi.org/doi:10.1016/j.ijheh.2014.05.005>, 217(8):897 |

***Books Written/Edited and Books Chapters***

***Book Chapter***

1. Khan M.U., Besis A., **Malik R.N**. (2019) Environmental and Health Effects: Exposure to E-waste Pollution. In: Hashmi M., Varma A. (eds) Electronic Waste Pollution. Soil Biology, vol 57. Springer, Cham. <https://doi.org/10.1007/978-3-030-26615-8_8>
2. Khan, M. U., Besis, A., & **Malik, R. N.** (2019). Environmental and Health Effects: Exposure to E-waste Pollution. In Electronic Waste Pollution (pp. 111-137). Springer, Cham.
3. Zafar, M. I., Ali, M., Farooqi, A., Naseem, **R., Malik**, Z. I., & Ahmad, S. (2019). Toxicity Evaluation in Flora and Fauna Exposed to Marine Pollution. Marine Pollution: Curreent Status, Impacts and Remedies, 1, 256-274.
4. Kamal A., **Malik R.N.** (2017) Human Being as Biomonitor of Soil Xenobiotics. In: Hashmi M., Kumar V., Varma A. (eds) Xenobiotics in the Soil Environment. Soil Biology, vol 49. Springer, Cham. https://doi.org/10.1007/978-3-319-47744-2\_5
5. Ali Z, **Malik RN**, Kazi A G and Mujeeb-Kazi A (2015). Chapter: Taming food security through wastewater irrigation practices. In Plants, pollutants and remediation. In: Plants, Pollutants and Remediation (ed. Öztürk, Münir et al.) Pg. 300, [Springer Netherlands](http://www.wisepress.com/publishers/springer-netherlands/?published=False&available=False).ISBN-13: 9789401771931.
6. Zeshan Ali, Alvina G. Kazi, **Malik RN**, Mehreen Naz, Tayyaba Khan, Asim Hayat, and Abdul M. Kazi (2015). Chapter 2: Heavy Metal Built-Up in Agricultural Soils of Pakistan: Sources, Ecological Consequences, and Possible Remediation Measures. In: Soil Biology, Heavy Metal Contamination of Soils:Monitoring and Remediation: (ed. Irena Sherameti Ajit Varma). Volume 44, pp 23-42.; Springer International Publishing Switzerland, ISSN 2196-4831 (electronic), ISBN 978-3-319-14525-9 ISBN 978-3-319-14526-6 (eBook), DOI 10.1007/978-3-319-14526-6.
7. Ali, A., Ali Z., Qureshi, UM, Kazi AG., **Malik RN**, Sher H, Kazi MK (2014) Chapter 14: Integrating physiological and genetic approaches for improving drought tolerance in crops.; In: Advances in Endophytic Research; by Ahmad Vol 2 1611061 pp 301-320, ISBN: 978-81-322-1574-5 (Print) 978-81-322-1575-2 (Online). Elsevier.
8. Hussain M, Muhammad S, **Malik RN** ,Khan MU, and Farooq U (2014) Status of Heavy Metal Residues in Fish Species of Pakistan. In: Reviews of Environmental Contamination and Toxicology (ed. David M. Whitacre). Volume 230, pp 111-132.; Springer, ISBN: 978-3-319-04410-1 (Print) 978-3-319-04411-8 (Online).
9. Yousaf S, Afzal M, Anees M, **Malik RN,** CampisanoA (2014) Chapter 15: Ecology and functional potential of endophytes in bioremediation: A Molecular Perspective; In: Advances in Endophytic Research; by VC Verma, AC Gange, pp 301-320, ISBN: 978-81-322-1574-5 (Print) 978-81-322-1575-2 (Online). Springer, India.
10. Hashmi ZM, Abbasi N, Tang X, **Malik RN**. (2014). Egg as a bio-monitor of heavy metals in soil. Heavy Metal Contamination of Soils Monitoring and Remediation. In: Soil Biology, Heavy Metal Contamination of Soils: Monitoring and Remediation: (ed. Irena Sherameti Ajit Varma). Volume 44, pp 23-42.; Springer International Publishing Switzerland, ISSN 2196-4831 (electronic), ISBN 978-3-319-14525-9 ISBN 978-3-319-14526-6 (eBook), DOI 10.1007/978-3-319-14526-6.

**Book edited**

1. Qadir A, **Malik RN**, Ahmed T MA (2011), Impacts of Human Activities on Streams of Sialkot, Pakistan. <https://www.lap-publishing.com/catalog/ISBN> 978-3-8443-9108-4/
2. Husain SZ, **Malik RN,** Khan MA (2009). Pollen Atlas and Characterisation of Allergy Causing Plants in Islamabad, Pakistan. Fatima Jinnah Women University, RWP, Pakistan.

## ***Conference Proceedings and Symposiums***

1. Riaz R, Mehboob M, Khan C, **Malik RN** (2020). 2nd International Conference in Emerging Trends in Earth and Environmental Sciences, ETEES, 04-06 March, 2020, University of Punjab, Quaid-e-Azam Campus, Lahore, Pakistan,
2. **Malik RN** (2017). 1st International Conference in Emerging Trends in Earth and Environmental Sciences, ETEES, 09-10 March, 2017, University of Punjab, Quaid-e-Azam Campus, Lahore, Pakistan,
3. Khan MU, Shahbaz N, Waheed S, **Malik RN** (2014). Comparative Health Risk Surveillance of Heavy metals via water and food stuff consumption grown in different land use types of Pakistan. 2nd Clear Conference, 5-8th Oct, 2014, Chuncheon, Korea
4. **Malik RN**, Mahmood A, Li J, Zhang G (2014). Emerging Pollutants: Screening – Levels Risk Assessment in Environmental Compartments and Dietary Expsoure to Human Health through consumption of Cereal Crops from Pakistan. 2nd Clear Conference, 5-8th Oct, 2014, Chuncheon, Korea
5. Ali N, Mehdi T, **Malik RN**, Kamal A, Eqani S-A-M-A-S, Malik, Dirtu AC, Neels H, Covaci A [2012]. Human Exposure to Organic Contaminants in Different Occupational Settings from Pakistan. SETEC, 2012.
6. Z Saqib, **RN Malik** and H Von Wehrden - Landcover dynamics in relation to western tragopan occurrence in Pakistan: a regional assessment. 12th national and 3rd international Conference of Pakistan Botany Society, Quaid-i-Azam University, ISL.
7. M Arshad, **RN Malik** and Z Saqib - Assessing potential habitats of Kashmir markhor in ChitralGol National Park, Khyber Pakhtunkhwa, Pakistan. 12th national and 3rd international Conference of Pakistan Botany Society, Quaid-i-Azam University, ISL.
8. Walter C, Shinwari ZK, Afzal I, **Malik RN** [2011]. Antibacterial Activity in herbal products used for throat and chest infection. International Workshop on “Medicinal Plants: Conservation & Sustainable Use” 8-10 December, 2011, Islamabad, Pakistan.
9. Saqib Z., **Malik RN**, Shinwari MI, Shinwari ZK, [2011]. Species richness, ethonobotanical species richness and human settlements along a Himalayan altitudinal gradient: prioritizing plant conservation in Palas Valley, Pakistan, International Workshop on “Medicinal Plants: Conservation & Sustainable Use” 8-10 December, 2011, Islamabad, Pakistan.
10. Mahmood A, **Malik RN**, Shinwari ZK, Mahmood A. [2011]. Ethnobotanical survey of plants from Neelum, Azad Jammu & Kashmir, Pakistan. International Workshop on “Medicinal Plants: Conservation & Sustainable Use” 8-10 December, 2011, Islamabad, Pakistan.
11. A Mahar, T Ahmed, **RN Malik**, Qadir A, Ullah R [2009]. Concentrations of Road Transport-Related Air Pollutants and their Health Implications of Hyderabad City, Pakistan. IHDP Open Meeting 2009, 7th International Sciences Conference on the Human Dimension of Global Environmental Change, 26-30 April, World Conference Centre, Bonn, UN Campus , Bonn , Germany.
12. **Malik, RN;** Qadir A. [2008]. Heavy metal contamination in surface water, Channapunctata of NullahAik and Palkhu, Tributaries of river Chenab, Pakistan. [Environmental Bioindicators](http://www.informaworld.com/smpp/title~content=t716100765~db=all), [3](http://www.informaworld.com/smpp/title~content=t716100765~db=all~tab=issueslist~branches=3#v3)[1]. 80—84 [W23], 15th International Conference of Environmental Bioindicators,
13. **Malik RN**; Qadir A. [2008]. Fish Assemblage: An indicator of stream health using Index of Biological integrity. [Environmental Bioindicators](http://www.informaworld.com/smpp/title~content=t716100765~db=all), [3](http://www.informaworld.com/smpp/title~content=t716100765~db=all~tab=issueslist~branches=3#v3)[1]. 80—84 [W18],
14. R. Ullaha, **RN Malik**, A. Muhhamad, K. Ahad, A. Qaidr [2008]. Assessment of selected persistent organic pollutants [POPs] in sediments from streams of Sialkot District. In an International Conference of Plant Scientist [10th National Meeting of Plant Scientist] 21-24 April 2008, University of Agriculture, Faisalabad, Pakistan.
15. Qadir A, **RN Malik** and Ahmed T (2008). Assessment of stream condition of NullahAik and NullahPulkhu, two tributaries of river Chenab, Pakistan using biological integrity indices for fish assessable. . In the Proceeding of the International of Pakistan Congress of Zoology, March 18-20 2008, Gov. College University, Faisal University, FaisalAbad, organized by Zoological Society of Pakistan.
16. Qadir A, Mushtaq S, **Malik RN** and Sabir AM [2008]. Biodiversity of foliage and cursorial spiders in sugarcane field at Faisalabad, Pakistan. . In the Proceeding of the International Pakistan Congress of Zoology, March 18-20 2008, Gov. College University, Faisal University, FaisalAbad, organized by Zoological Society of Pakistan.
17. A Mahar, **Malik RN**, A Qadir, T Ahmed, Z Khan and MA Khan [2007]. Review and Analysis of Current Solid Waste Management Situation in Urban Areas of Pakistan. Proceedings of the International Conference on Sustainable Solid Waste Management, 5 - 7 September 2007, Chennai, India. pp.34-41
18. Eqani SAMAS, Niazi M, **Malik RN** & Qadir A. [2007]. Spatial Variation in Water Quality of River Chenab from Head Trimmu to Sher Shah Pul. In the Proceeding of the International Seminar on, “Effect of pollution on water quality and aquatic life” 26-27th June 2007 at Pakistan Agriculture Research Council, Islamabad, Pakistan.
19. Qadir A, **Malik RN** and Ahmad T. [2007].Diversity, distributional patterns of fish community in NullahPalkhu: a severely polluted stream of district Sialkot. In the Proceeding of the International Seminar on, “Effect of pollution on water quality and aquatic life” 26-27th June 2007 at Pakistan Agriculture Research Council, Islamabad, Pakistan.
20. **Malik RN** and Husain SZ. [2007]. Overview of Aquatic Ecosystems of Pakistan. In the Proceeding of the International Seminar on, “Effect of pollution on water quality and aquatic life” 26-27th June 2007 at Pakistan Agriculture Research Council, Islamabad, Pakistan.
21. Ullah R, **Malik RN**, Muhammad A, Ahad K and Qadir A. [2007]. Assessment and spatial distribution of persistent organic pollutants in selected Fish species in two streams of river Chenaab. In the Proceeding of the International Seminar on, “Effect of pollution on water quality and aquatic life” 26-27th June 2007 at Pakistan Agriculture Research Council, Islamabad, Pakistan.
22. Qadir, A**. Malik RN**, Ahmad T, Saqib Z. [2007].Assessment of water quality of NullahPalkhu: Tributary of river Chenab [Pakistan]. In the Proceeding of the International Conference on “Biological Resources of Pakistan: Problems success and future perspectives” University of Arid Agriculture, 25-27 April 2007, Rawalpindi.
23. Rizwanullah, **Malik RN**, Ahad K, Muhammad A, Qadir A. [2007].Assessment of Persistent Organic Pollutants [POPs] in four fish species recorded from streams of District Sialkot. In the Proceeding of the International Conference on “Biological Resources of Pakistan: Problems success and future perspectives” University of Arid Agriculture, 25-27 April 2007, Rawalpindi.
24. Qadir A, **Malik RN**, Ahmad T. [2006]. Effect of stress from industrial and municipal waste on distribution and diversity of fish in NullahAik and NullahPalkhu: tributaries of river Chenab. International Symposium on Analytical and environmental Chemistry [July 24-26, 2006] Organized by Institute of chemical Sciences [ICS], University of Peshawar and Centre of Excellence in Analytical Chemistry, University of Jamshoro, Bara Gali, Murree, Pakistan.
25. Mahar A, **Malik RN** [2006]. Ambient air quality monitoring and environmental impact assessment of Hyderabad City, Sindh. International Symposium on Analytical and environmental Chemistry [July 24-26, 2006] Organized by Institute of chemical Sciences [ICS], University of Peshawar and Centre of Excellence in Analytical Chemistry, University of Jamshoro, Bara Gali, Murree, Pakistan.
26. Ulla R, Qadir A, **Malik RN**, Ahmad T. [2006]. Assessment of Ground water quality in the urban aarea of Silkot city. International Symposium on Analytical and environmental Chemistry [July 24-26, 2006] Organized by Institute of chemical Sciences [ICS], University of Peshawar and Centre of Excellence in Analytical Chemistry, University of Jamshoro, Bara Gali, Murree, Pakistan.
27. **Malik RN**, Husain S Z. [2005]. Alien invasion: a threat to floral diversity, In: Global Change Perspective in Pakistan, Challenges, Impact, Opportunities & Prospects, 189-196. Proceeding of National Workshop, April 28-30, 2005, Islamabad.
28. **Malik RN**, D. M. Keith Lucas & S. Z. Husain [2004]. Land-Cover Mapping and Impact of Urbanization on the Scrub Forest in the Suburb of Rawalpindi, Pakistan. In the Remote Sensing and Photogrammetry Society, Annual conference: RSPSOC-Mapping and resource management 7th –10th September, 2004. [see[www.rspsoc.org](http://www.rspsoc.org).
29. **Malik RN**, AmtulRafique& S. Z. Husain [2004]. Ethnobotanical resources of Sialkot City. International symposium on medicinal plants: Linkages beyond national boundaries. 7-9 September 2004, Islamabad. Proceeding-42-49.
30. **Malik RN** & S. Z. Husain [2004]. Does The Remote Sensing Data Provide Information About the Ecological Vegetation Communities? In the Remote Sensing and Photogrammetry Society, Annual conference: RSPSOC-Mapping and resource management 7th –10th September, 2004. [see [www.rspsoc.org](http://www.rspsoc.org)]
31. **Malik RN**, Husain, S. Z. [2002]. Deforestation assessment in Northeast of Pakistan. 22nd EARSeL Symposium & General Assembly Prague, Czech Republic, 4th - 7th June.
32. **Malik RN**, Husain, S. Z. &Raouf, A. [2000]. Mapping Different Vegetation Types by Using Remote Sensing and GIS Techniques: a case Study of Margalla Hills National Park, Pakistan. Adding Value to Remotely Sensed Data. Proceedings of the 26th Annual Conference of the Remote Sensing Society, Leicester, 12th-14th Sept 2000, Published by The Remote Sensing Society, ISBN: 0 946226 30 X, Binding: CD ROM, 13pp.
33. **Malik RN**, Raouf, A, Husain SZ [2000]. Use of GIS and image processing for vegetation mapping at Lohibehr Wildlife Park, Northeast of Pakistan. Earth observation to Information. The Proceeding of Pakistan Society of Geographic Information Systems, during 5th –8th April. Pp: 43-48.
34. **Malik RN**, Husain SZ, Raouf A. [1999]. Exploitation of System Probaterire de l’observation de la terre [SPOT XS] for monitoring vegetation changes in Lohibehr Wildlife Park, Northeast of Islamabad, Pakistan. Proceedings of the 25th Annual Conference of Remote Sensing Society of U.K. at University of Wales, Cardiff, UK during 8th –10th September. Pp: 733-742.

**Others**

* Malik, R. N. (2003). Gradient analysis in Landsat TM Data of Amazonian Rain Forest. Centre for International Mobility (CIMO), University of Turku, Finland.
* Malik, R. N. (2003). Vegetation Mapping in the Northwest of Pakistan. Unpublished PhD Thesis, University of Reading, United Kingdom.
* Malik, R., N. (1997). Taxonomic and Palyonological study of flowering plants of Islamabad. M.Phil. Thesis, Quaid-i-Azam University, Islamabad, Pakistan.

## **TRAINING COURSES**

## Training course on “Potential And Application Of Microwave Remote Sensing” conducted at Asian Institute of Technology, Bangkok, Thailand, from 21stAugust – 1stSeptember 2000.

## Training course on “Geographic Information Systems” at National University of Science and Technology, Rawalpindi, Pakistan, in collaboration with Hanns-Seidel Foundation, Germany from 8th–12th march 1999.

## Training Course on “Remote Sensing of Dry land” at The University of Turku, Finland, 9th-18th December, 2002.

## Training workshop on “Capacity Building in Global Change Research” from 8th-10th June 2004, at Pakistan Academy of Sciences, Islamabad, Pakistan, in collaboration with Asia Pacific Network for Global Change Research.

###### **WORKSHOPS ATTENDED**

* International workshop on, Education Institute for Responsible Science, 17-22 August, 2013, organized by National Academy of Sciences, USA, hosted in Kuala Lumpur, Malaysia.
* Workshop on Ratification of Stockholm Convention and setting priorities : training/skills building workshop for the development of national implementation of plan, 28-31 Marsh 2006, organized by UNDP / POP Islamabad Pakistan.
* Workshop On Quantitative Ecology, 9-20 May 2005, The Abdus Salaam International Centre for Theoretical Physics (ICTP) Trieste, Italy.

## Workshop on IDENTIFICATION, MAINTENANCE, AND PRESERVATION OF MICRO-ORGANISM, May 10-12, 2004, Quaid-i-Azam University, Islamabad, Pakistan

## 22ndEARSeL Symposium & General Assembly 4th -7th June, Prague, Czech Republic.

**RESEARCH STUDENTS SUPERVISED:**

**PhD produced to date: 15**

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| S#No | Name of student | Date of Completion | Research thesis Title |
| 1. | Abdul **Qadir** | 2010 | Effect of Anthropogenic Activities on Water Quality and Fish of Nullah Aik and Nullah Palkhu - Tributaries of River Chenab, Pakistan |
| 2. | Syeda Maria **Ali** | 2011 | Mapping Spatial Patterns of Vegetation with Underlying Ecological Gradients in Islamabad City |
| 3. | Masood **Arshad** | 2011 | Kashmir Markhor (Capra falconericashmeriensis) Population dynamics and its Spatial Relationship with Domestic Livestock in Chitral Gol National Park, Pakistan |
| 4. | Syed Ali Mustajab **Eqani** | 2012 | Organochlorine Residues in the Riverine Ecosystem of Pakistan |
| 5. | Zafeer **Saqib** | 2013 | Mapping Spatial Vegetation Patterns in Palas Valley, Kohistan, Pakistan using Geographic Information System |
| 6. | Jabir Hussain **Syed** | 2014 | Residual Status and Air-soil Exchange Fluxes in the Environment of Punjab Province, Pakistan |
| 7. | Adeel **Mehmood** | 2015 | Spatial distribution and screening level risk a assessment and persistent Organic Pollutants in the cereal crops and environmental compartments along upstream tributarie4s of the River Chenab, Pakistan |
| 8. | Atif **Kamal** | 2015 | Biochemical investigations and health implications for selected cohorts exposed to polycyclic Aromatic Hydrocarbon (PAHs) in Pakistan |
| 9. | Naeem Akhtar **Abbasi** | 2017 | Exposure to organic contaminants and effects on oxidative stress endpoints in top predatory birds of Pakistan |
| 10. | Majid Hussain | 2017 | Life Cycle Assessment of Particleboard Industry in Pakistan |
| 11. | Muhammad Usman Khan | 2017 | New insight into the levels, distribution and risk diagnosis of flame retardants (FRs) in potable water, air and dust from different altitudinal zones of Pakistan |
| 12. | Summya Nazeer | 2017 | Ecological Assessment of Fresh Water Ecosystem of River Soan and its Tributaries. |
| 13. | Usman Ali | 2018 | Accounting for black carbon relationship with organochlorines in lesser Himalaya, Pakistan |
| 14. | Zeeshan Ali | 2018 | Deciphering effects of untreated municipal, industrial and reclaimed wastewater irrigation on wheat crop |
| 15. | Sidra Waheed | 2019 | Occupational exposure to currently used pesticides (CUPs) in Lahore, Pakistan: Environmental load, Exposure markers, risk diagnosis and evaluation of model based ecotoxicity |

**M.Phil Produced to date: 82**

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| --- | --- | --- | --- | --- | --- |
| **S.No** | **Name of students** | **Date Completion** | **Regs-No** | Status | **Research Thesis Title** |
|  | *Waqar Ahmed* | *2007* | *5679-BS/MP-2004* | *Completed* | *Spatial and temporal distribution of postfire vegetation in subtropical Chir Pine Forest* |
|  | *Waqar Jadoon* | *2007* | *5879-BS/MP-2005* | *Completed* | *Predicting the distribution of heavy metals in urban soil of Sialkot: a GIS approach* |
|  | *RizwanUllah* | *2007* | *6169-BS/MP-2005* | *Completed* | *Assessment of selected Persistant Organic Pollutants in water, sediments and fish from streams of of Sialkot District.* |
|  | *Amanullah Meher* | *2007* | *6168-BS/MP-2005* | *Completed* | *Monitoring and assessment Ambient Air quality of Hyderabad city* |
|  | *Yasmin Zafar* | *2007* | *5413-BS/MP-2004* | *Completed* | *Avifaunal diversity pattern in relation to habitate preferences in upstream of the trimuheadworks* |
|  | *Isfaq Nazir* | *2007* | *6170-BS/MP-2005* | *Completed* | *Hyper-accumulator of heavy metals of industrial areas of Islamabad and Rawalpindi* |
|  | *Naila Zeb* | *2008* | *6483-BPS/PM-2006* | *Completed* | *Biomonitoring of environemtal contamination using Bubulcus ibis L., as an ecological indicator* |
|  | *Sidra Rauf* | *2008* | *6482-BPS/MP-2006* | *Completed* | *Bioaccumulation and bioconcentration of persistant organic pollutants (POPs) in colonial water birds from urban and agricultural areas, Pakistan* |
|  | *Nadia Yousaf* | *2008* | *6738-PLSC/MP-2006* | *Completed* | *Effect of Environmental Factors on Integrity and Assemblage Structure of Macroinvertebrates and Ichthyofauna in the Himalayan Foothills Streams, Pakistan* |
|  | *Khurram Syeed* | *2009* | *7243-BPS/MP-2007* | *Completed* | *Assessment of Spatio-tmeporal trends in the ecological integrity of Himalayan Foothills streams using macro-invertebrates as indicators* |
|  | Imran Husain | *2010* | *7840-BPS/MP-2008* | *Completed* | *Fate, Sources and Distribution of Polycyclic Aromatic Hydrocarbons in surface sediments of the River Chenab, Pakistan* |
|  | *Hina Qayyum* | *2009* | *6887-PLSC/MP-2007* | *Completed* | *Effect of Anthropogenic Activities on Ecological Integrity of NallahKurang: Feeding Tributary of Rawal Lake Reservoir* |
|  | *Yasmin Huma* | *2009* | *7241-BPS/MP-2007* | *Completed* | *Bioaccumulation of Trace Metals in Selected Fish Species from Rawal Lake Reservoir, Pakistan* |
|  | *Bushra Ghaffar* | *2009* | *6737-PLSC/MP-2007* | *Completed* | *A Comparative assessment of heavy metals in water, sediments and softshell turtles (Aspideretesgangeticus) in Jehlum and Ravi Rivers* |
|  | *Jabir Hussain Syed* | *2009* | *7239-BPS/MP-2007* | *Completed* | *Pesticides residues in surrounding surface soils of Ittehad Chemical Industries KalashahKaku, Lahore* |
|  | *Azmat Zehra* | *2009* | *7242-BPS/MP-2007* | *Completed* | *Impacts of anthropogenic activities on sediment quality of the Korange River - A tributary of Rawal Lake Reserviour, Pakistan* |
|  | *M. Nadeem* | *2009* | *6908-PLSC/MP-2007* | *Completed* | *Spatio-Temporal Variations of Water Quality of Rawal Lake Reservoir , Pakistan* |
|  | Kaleem Ulla | *2010* | *7844-BPS/MP-2008* | *Completed* | *Biomonitoring of heavy metals using cattle egrets, feathers from selected heronries of Punjab, Pakistan* |
|  | *Qaiser Farid Khan* | *2010* | *7511-BPS/MP-2008* | *Completed* | *Spatio-Temporal Variations in Surface Water Quality from Upstream and Downstream of the River Chenab Pakistan* |
|  | Sammya Farooq | *2010* | *7847-BPS/MP-2008* | *Completed* | *Spatio-temporal variations of PAHs in surface water of the River Chenab, Pakistan* |
|  | Zeshan Ali | *2010* | *7836-BPS/MP-2008* | *Completed* | *Determination of heavy metals in tannery effluents and its associated soils of Sialkot district, Pakistan* |
|  | *Hinna Waheed* | *2010* | *7503-BPS/MP-2008* | *Completed* | *Spatial variations in riparian vegetation and floristic quality of River Soan and its associated tributaries, Pakistan* |
|  | Zafer Hashmi | 2011 | 8067-BPS/MP-2009 | *Completed* | *Egrets As Bioindicators of Chemical Contamination: Case Study From The Punjab Province* |
|  | M. Shahbaz | 2011 | 8064-BPS/MP-2009 | *Completed* | *Relationship Between Heavy Metals Concentrations IN Egret Species, Their Environment And Food Chain Differences* |
|  | Nadia Gul | 2011 | 8063-BPS/MP-2009 | *Completed* | *Risk Assessment From Heavy Metals: A Rural – Urban Soil Contamination Gradient* |
|  | M. Usman Khan | 2012 | 02041011004 | *Completed* | Human Health Risk from Toxic Chemicals via Consumption of Food Crops in the Vicinity of selected Industrial Areas, Pakistan |
|  | Sadia Rashid | 2012 | 02040913012 | *Completed* | Biochemical and Heavy Metal Analysis of selected Plant Species collected from Solid Waste Dumping Site, Rawalpindi |
|  | AinyZehra | 2012 | 02041013022 | *Completed* | The Status of Contamination of Halogenated Organic Compounds in Surface Soil of Nowshera District, Pakistan |
|  | Sidra Wahed | 2012 | 02041013021 | *Completed* | Organ Specific Response of Antioxidants Induced by Heavy Metals in Edible Fish: An Indication of Aquatic Pollution in the River Chenab |
|  | Naeem Abbassi | 2013 | 02041013029 | *Completed* | A Multi-Specie Monitoring Study of Heavy Metals Accumulation in Feathers from Birds of Pakistan: Effect of Location, Taxonomic Affiliation and Trophic Level |
|  | Ambreen Alaamdar | 2013 | 02041111026 | *Completed* | Organochlorines (OCs) in the Soils from Obsolete Pesticide dumping Site in Haiderabad city, Pakistan: Contamination levels and Their Potential for Air-Soil Exchange |
|  | Fauzia Mehboob | 2013 | 02040913010 | *Completed* | Persistent Toxic pollutants in Surface Sediments of the River Soan, Pakistan: Trends, Profile, Sources and Risk Assessment |
|  | Uzma Zia | 2013 | 02041111021 | *Completed* | The Population Trends of Water Birds (2006-2012) in The Salt Range, Punjab Province, Pakistan |
|  | Majid Hussain | 2013 | 02041111012 | *Completed* | Managing Carbon Footprints for Sustainable Development: A Case Study of the Pakistan Tobacco Company |
|  | Muhammad Nouman | 2013 | 02040913024 | *Completed* | Evaluation of Bio-indicator Plants for road dust and surface soil contamination. |
|  | M Bashir Ahmed | 2013 | 02040913026 | *Completed* | A Comparative Study of Assessment and Source Apportionment of Heavy Metals in Industrial and Agricultural Soils of the Punjab Province, Pakistan |
|  | Nadia Shabaz | 2014 | 02311113015 | *Completed* | Assessing risk associated with hum,an health due to heavy metals contamination and food chain transfer: a case study from Lahore and its surrounding areas, Pakistan |
|  | Sadia Kanwal | 2013 | 02311113016 | *Completed* | Effects of Arbuscular Mycorrhizal Fungi on Growth Nutrient Status and Biochemical Activities of Triticum aestivum L. and Medicago sativa L. with Increasing Zinc and cadmium Concentrations |
|  | Mehwish Bibi | 2013 | 02311113008 | *Completed* | Evaluation of Human Exposure to Arsenic and other Toxic Metals in the Vicinity of Kalalnwala Town, Lahore |
|  | Khansa Qamar | 2014 | 02311113002 | *Completed* | Polyaromatic Hydrocarbons (PAHs) exposure to human: a multi-occupational study in Lahore |
|  | Faiqa Aziz | 2014 | 02311113012 | *Completed* | Water Pollution by Polyaromatic Hydrocarbons: Insights into Distribution, Composition and Sources in the Soan River, Pakistan |
|  | Usman Ali | 2014 | 02311211007 | *Completed* | Black Carbon and Organochlorines in Coastal Sediments from Pakistan: Levels, Sources, Relationship and Mass Inventory |
|  | Jawairia Sultana | 2014 | 02311211005 | *Completed* | Persistent Toxic Substances (PTS) in Ecologically Important Sites of Indus Basin, Pakistan,:P A Study on Levels, Souurce Identification & Potential for Air – Soil Exchange |
|  | Sikandar Sultan | 2014 | 02041013002 | *Completed* | Assessment of heavy metals in human blood and its association with stress hormones |
|  | M Junaid yahya | 2014 | 02311213005 | *Completed* | Chromium and other Toxic Heavy Metals Monitoring and Oxidative Stress in Exposed Workers of Tannery and Surgical Instrument Manufacturing Industries of District Sialkot, Pakistan. |
|  | Saba Hafeez | 2015 | 2311213008 | *Completed* | Waste Dumping Sites as a Potential Source of Polybrominated di phenyl ethers (PBDEs), dechloran plus (DP) and Polychlorinated bi phenyls (PCBs) in Perspective of Current Waste Management Practices in Lahore, Pakistan |
|  | Umme Aiman | 2015 | 02311213009 | *Completed* | Risk Surveillance of Toxic Metals in different Compartments of Mehmood Booti Dumping Site Lahore, Pakistan |
|  | Zanab Ijaz | 2015 | 02311213010 | *Completed* | Enrichment of Organochlorine Pesticides (OCPs) in Environmental Compartments of Lahore, Pakistan; Contamination from Mehmood Booti Dumping Site as a Potential Source and Implications of Waste Management Practices. |
|  | *Manshad Rustam* | 2015 | 02311113007 | *Completed* | Multi-scale GIS-based Modeling of Hunza Karakurram Glaciers for the Hazard Assessment of GLOFs, North Pakistan |
|  | *Timmer Robinson* | 2015 | 02311311007 | *Completed* | Fingerprints and Status of Persistent Organic Pollutants (POPs) in Fish Fauna from Selected Sites of the Indus River, Pakistan: A Human Health Risk Assessment. |
|  | *Anam Bajwa* | 2015 | 0231131103 | *Completed* | Black Carbon Mediated Environmental Distribution of Organochlorine Pesticides (OCPs) from Selected Sites of the Indus River, Pakistan |
|  | *Naima Hamid* | 2015 | *0231311006* | *Completed* | Do Energy Crisis Influence the Environment Quality? A Novel Approach to Evaluate Poly Aromatic Hydrocarbons (PAHs) in Indoor and Outdoor Environment of Islamabad and Rawalpindi, Pakistan |
|  | *Rahat Riaz* | 2015 | 02311313017 | *Completed* | Polycyclic Aromatic Hydrocarbons (PAHs) in an Urban Environment: A Case Study along Grand Trunk (GT) Road on Status, Sources and Health Risk Assessment |
|  | Mehreen Iqbal | 2016 | 02311411018 | *Completed* | Estimation of e-waste generation in pakistan with emphasis on occurrence of Environmental contaminants from e waste recycling sites, Karachi |
|  | Aqeela Muheen | 2016 | 02311411016 | *Completed* | Tracing persistent organic pollutants signatures in the pristine environment of the mountainous range of northern Pakistan; the implication for long range atmospheric transport an mountain cold trapping along altitudinal gradient |
|  | Maryam Khan | 2016 | 02311313014 | *Completed* | Removal of Arsenic and fluoride from aqueous solution using electronic waste derived materials: mechanism, modeling and comparison |
|  | Sundas Ansari | 2017 | 02311313014 | *Completed* | Assessing residual status and spatial variation of current-use pesticides under the influence of environmental factors in major cash crop growing areas of Pakistan. |
|  | Marriya Sultan | 2017 | 02311511012 | *Completed* | Insights into occurrence, profile and spatial distribution of Organochlorine pesticides in soils of solid waste dumpsites of Pakistan: Influence of soil properties and implications for environmental fate |
|  | Zenub Saleem | 2017 | 02311413007 | *Completed* | Carbon (𝛿13 C) isotope as a tracer of heavy metal distribution: a study of dust-bound metals and associated soil-vegetation along different elevation zones in Sub-Himalayan region, Pakistan |
|  | Amina M. Irshad | 2017 | 02311413013 | *Completed* | Gap Analysis of National Climate Change Policy (NCCP) in the Context of Water Sector |
|  | Mr. Sherafghan | 2017 | 02311311012 | *Completed* | Toxin Substances in Soil, Dust and Effluents from an Informal E-Waste Recycling area Lahore, Pakistan. |
|  | Muhammad Saeed | 2017 | 023111513005 | *Completed* | Susceptibility of school children to synergistic impacts of fluoride and toxic metals |
|  | Anum Mir | 2017 | 02311513005 | *Completed* | Exploring policy avenues of municipal solid waste management: A case study of Islamabad |
|  | Farkhenda Tasneem | 2017 | 02311513014 | *Completed* | Metals and metalloids accumulation differences between selected aquatic and terrestrial bird species of Pakistan |
|  | Ayesha Ghanzanfar | 2017 | 02311513013 | *Completed* |  |
|  | Shamsa Kanwal | 2017 | 02311513018 | *Completed* | Metals and metalloids induced oxidative stress differences in selected terrestrial and aquatic birds species of Pakistan |
|  | Beenish Malik | 2017 | 02311411010 | *Completed* | Modeling Spatial Distribution, of Heavy Metals and their Fluxes in the Riverine System of Azad Jammu Kashmir Pakistan |
|  | Tariq Jamil | 2017 | 02311413012 | *Completed* | Trends of Heavy Metals Contamination in various micro-environment of District Peshawar |
|  | Hajra Faiz | 2017 | 02311611006 | *Completed* | Concurrent Exposure to Arsenic and Fluoride via Drinking water and Associated Health Impacts among Rural Children of Punjab, Pakistan |
|  | Jazib Khan | 2018 | 02311613018 | *Completed* | Assessment of glaciated and non-glaciated Lakes of Lesser Himalayan region, AJK, Pakistan |
|  | Uroosa Altab | 2018 | 02311613005 | *Completed* | Elucidating Persistant Organic Pollutants distribution in Conifer Needles at High Altitude Zones of Lesser Himalayas in relation to Soil: Implications for Isotopic Signature as Source Tracer |
|  | Nikhat Hina | 2018 | 02311613001 | *Completed* | Trophodynamics and Biomagnification of Mercury in Selected Freshwater Lakes, Azad Kashmir, Pakistan |
|  | Muneeb Tahir | 2018 | 02311613016 | *Completed* | Oxidative Stress and gene polymorphism from heavy metal exposure in E-waster workers |
|  | Rahim ud Din | 2019 | 02311711014 | *Completed* | Social and Environmental Assessment of Informal Recycling Process of Waste Electrical and Electronic Equipment (WEEE) in Selected Cities of KPK and Punjab, Pakistan |
|  | Muhammad Tariq Qureshi | 2019 | 02311613013 | *Completed* | Assessment of Current waste management practices and community level resources usage via Life Cycle Assessment: A case study of Water and Sanitation Services, Peshawar, Pakistan |
|  | Chengaiz Khan | 2019 | 02311713020 | *Completed* | A comprehensive Assessment of Dust Bound Metals Exposure with urinary and oxidative stress biomarkers among Chromites mining workers of Muslim Bagh, Baluchistan |
|  | Sumbal Saeed | 2019 | 02311713006 | *Completed* | Sources Diagnostic Assessment of Dissolve Black Carbon in Selected Lacustrine System of Northern Pakistan |
|  | Saeed Waqar Ali | 2019 | 02311711001 | *Completed* | Tree rings as a tool to biomarker spatial and historical trends of atmospheric pollutants in the Northern Pakistan |
|  | Taimoor Iqbal | 2020 | 02311713012 | *Completed* | Contamination of Emerging Concern in Selected Freshwater Ecosystems of Punjab, Pakistan |
|  | Hudda Khaleeq Khan | 2020 | 02311811010 | *Completed* | Understanding the levels of selected pharmaceuticals and personal care products (PPCPs) in groundwater from major cities of Pakistan |
|  | Ambreen | 2020 | 02311811014 | *Completed* | Distribution of Trace and Major metals in Pristine Lakes Sediments of district Ghizer, Gilgit-Baltistan, Pakistan |
|  | Syeda Maria Zainab | 2020 | 02311811003 | *Completed* | Investigating the Environmental Implications of Targeted Antibiotics in Groundwater from Major Urban-Rural Settings of Pakistan |

**CREATIVE WORK / INNOVATIONS**

1. Establishment of Ecotoxicology and Environmental Biology Laboratory in at QAU
2. Establishment of Department of Environmental Sciences at QAU

**RESEARCH PROJECT COMPLETED**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Project Title** | **PI / Co-PI** | **Amount**  **Million (Rs)** | Sponsoring **/Funding Agency** | Duration |
|  | Tree rings as a tool to reconstruct spatial and historical trends of atmospheric mercury in the Northern Pakistan | PI | RMB + 50,000 | CAS, China | 2019-2020 |
|  | Assessment of Illicit Drugs and Antibiotics in Ground, Surface and Wastewater Channels and Rivers around Rawalpindi and Islamabad | PI | RMB + 50,000 | CAS, China | 2019-2020 |
|  | Black Carbon Influence and Cold Trapping of Persistent Organic Pollutants (POPs) in the Lesser Himalayan region, Pakistan | PI | 3.7 | Higher Education Commission (HEC) | 2016-2019 |
|  | Risk assessment of transgenic potato on microbial community, enz activity and physical/chemical properties of soils from major growing areas of Pakistan | Co-PI | US$ 15855 | ILSI Research Foundation (“ILSI RF”) | March 2015-March 2016 |
|  | Development of titania based photcatalyst for photodegradation of commercial dyes. | Co-PI | 0.50 | Higher Education Commission (HEC) | 2013 |
|  | Phylogenetic and functional analysis of polycyclic Aromatic hydrocarbon (PAHs) degrading Microbes | Co-PI | 0.5 | Higher Education Commission (HEC) | 2013 |
|  | Ecological Impact Assessment of Selected Wetlands of Pakistan | PI | 3.7 | Higher Education Commission (HEC) | 2007-2011 |
|  | To determine the mechanism of uptake of phosphorous in a mycorrizal mutant. Characterization of MiPT4 and remel genes under stress conditions (drought and salinity conditions)” | Co-PI | 0.50 | Higher Education Commission (HEC) | 2011-2012 |
|  | Monitoring and health risk assessment of subjects exposed to wood/coal smoke from occupational and environmental sources in Rawalpindi and Islamabad | PI | 0.087 | Universality Research Fund (URF), QAU |  |
|  | Monitoring of Environmental Contamination Using Colonial Water Birds as a Bio-monitor of Heavy Metal Pollution | PI | 0.087 | Universality Research Fund (URF), QAU |  |

## **AWARDS, AND SCHOLARSHIPS**

1990-1992 Government of Pakistan Merit Scholarship

1999 Hanns-Seidel Foundation, Germany

## 1999, 2000 Travel awards: The Remote Sensing and Photogrammetry Society, UK

## 2000 Asian Institute of Technology, Bangkok, Thailand

2000 Travel awards: Pakistan Society of Geographic Information System, Pakistan

2002 Travel awards: 22nd EARSeL Symposium & General Assembly, Prague

2002-2003 Visiting Research Fellowship

2001-2004 Overseas Research Scholarship, Department of Geography, University of Turku, Finland

2005 Training Workshop on Quantitative Ecology, 9-20 May 2005, The Abdus Salaam International Centre for Theoretical Physics (ICTP) Trieste, Italy.

2008-2009 Postdoctoral research fellowship: Lancaster Environmental Centre,

2010 Lancaster University, Lancaster, LA1 4YQ, United Kingdom

2011 Research Productivy AAward PCST

2012 Research Productivy AAward PCST

2013 Research Productivy Award PCST

2013 Training Workshop, Educational Institute of Responsible Science, NAS, USA.

2015 Gold Medal Pakistan Academy of Sciences

2016 Best Paper research Award, HEC, Pakistan

2016 Research Productivity Award (RPA Category A,

2016 **Tamgha e Imtiaz**

2018 Visiting Scientist PIFI, CAS China

2019 Best Research Paper Award 2019, HEC, Pakistan

## **SKILLS & ACTIVITIES**

|  |  |
| --- | --- |
| *Computer Skills* | Image processing and other statistical software used ERDAS IMAGINE, ENVI, ERMAPPER, ILWIS, IDRISI, ISAR (SAR Interferometry), Arc View and MapInfo GENSTAT, MINITAB, SPSS, SAS, R Package, PC ORD, and MVSP  Other computer skills  Microsoft Word, Excel, Access, Publisher and Power point, Harvard Graphics |
| *Languages* | ENGLISH, URDU & PUNJABI: Reading, Writing, and Speaking  ARABIC: Reading, Writing and Understanding |
| *Scientific Memberships* | Member Pakistan Botanical Society  Member of WWF  Member of “THE REMOTE SENSING AND PHOTOGRAMMETRY SOCIETY”, U.K.  Member of “PAKISTAN SOCIETY OF GEOGRAPHIC INFORMATION SYSTEM” Pakistan.  General Sectary Soroptimist International of Great Britain and Ireland (SIGBI) Rawalpindi/ Islamabad, Pakistan  September 1993-1997  Editor of Biotide (Magazine published by Biological Sciences, Quaid-i-Azam University, Islamabad  Editor of Biologia (Annual Magazine by Biological Sciences, Quaid-i-Azam University, Islamabad) |

**ADMINISTRATIVE EXPERIANCE (OFFFICE Held):**

* Member, Board of Faculty, Q.A.U., Islamabad.
* Member, Board of Studies, Department of Environmental Sciences, Q.A.U., Islamabad.
* Member, Board of Studies, Department of Plant Sciences, Q.A.U., Islamabad.
* In-charge and student advisor Department of Plant Sciences, Q.A.U., Islamabad.
* Course Coordinator, Department of Plant Sciences, Q.A.U., Islamabad.
* Member, Admission Committee, Department of Plant Sciences, Q.A.U., Islamabad.
* Member, working group/national agenda on MultiEnirinmetalAgreemnets (MEAs), Pakistan Wetland Programme (PWP), Ministry of Environment and Environmental Protection Agency (Pak EPA).
* Member, working group for WWF, Pakistan
* Member, QAU Research Ethic Committee for the use of human, animals, plants and microbes , , Q.A.U., Islamabad.

**TRAVEL**

To attend conferences, workshops, symposiums, travelled to England, Scotland, Wales, Belgium, Netherlands, Sweden, Finland, Check Republic, France, Spain, Malaysia and Thailand