


Name	MUJTABA BAQAR (Ph.D.)	
Personal	Father's Name : Syed Hassan Baqar E-mail : mujtababaqir@gmail.com; mujtababaqar@gcu.edu.pk Contact : +923444996476 D.O.B. : 08-09-1989 Domicile : Lahore Nationality : Pakistan Gender : Male	
Experience (> 14 Years)	1. Assistant Professor (August, 2018 – to date) Sustainable Development Study Centre, Government College University, Lahore. 2. Postdoc Fellow/Assistant Research Fellow (July, 2022 – June, 2024) College of Environmental Science and Engineering, Nankai University, Tianjin, China. 3. Lecturer (May, 2016 – August, 2018) Sustainable Development Study Centre, Government College University, Lahore. 4. Research Officer cum Lecturer (March, 2012 – May, 2016). College of Earth and Environmental Sciences, University of the Punjab, Lahore. 5. Environmental Audit Trainer (2014, 2015, 2016, 2017, 2018) Pakistan Audits and Account Academy, Government of Pakistan. 6. Assistant Environmental Trainer (October, 2009 – March, 2012) Klimatech Environment Group	
Research Interest	<ol style="list-style-type: none">1. Environmental Monitoring and Assessment;2. Environmental Health Risk Assessment;3. Occupational Health and Safety;4. Environmental Management System;5. Solid and Hazardous Waste Management	

<p>Honor and Awards</p>	<ol style="list-style-type: none"> 1. HEC Best University Teacher Award- 2021 (University-Level), Government College University Lahore. 2. University Gold Medal for 1st Position in <i>BS Environmental Sciences</i>, University of the Punjab, Session: 2007-11. 3. Distinction - 1st Position/ Gold Medal in <i>M.Phil. Environmental Sciences</i>, University of the Punjab, Session: 2011-13. 4. Distinction - 1st Position in <i>Post Graduate Diploma in Environmental Law</i>, University of the Punjab, Session: 2015-16. 5. Merit Scholarship (University of the Punjab) for the Year 2008-09. 6. Merit Scholarship (University of the Punjab) for the Year 2009-10. 7. 1st position “Inter-Universities Environment Documentary Competition”, Kinnaird College University, Lahore. 8. Elected Member of Academic Council, GC University Lahore (2020-2023). 9. Elected Member of Senate (youngest-ever member), University of the Punjab, Lahore (2016-19) – against the seat of registered graduates 10. Former Senior Vice President, Klimatech Environmental Club. 11. Former Executive Member, Young Environmental Society, University of the Punjab.
<p>Academic Qualification</p>	<ol style="list-style-type: none"> 1. Ph.D. Environmental Sciences (2014-2018), University of the Punjab, Lahore Thesis Title: "Assessment of Selected <i>Persistent Organic Pollutants</i> (POPs) in River Ravi and its Northern Tributaries, Pakistan" 2. M.Phil. Environmental Sciences (1st Position) University of the Punjab, Lahore Thesis Title: “Characterization and Load Assessment of Wastewater Outfalls of Lahore, Pakistan”. 3. Post Graduate Diploma in Environmental Law (1st Position) University of the Punjab, Lahore 4. BS (Hons) Env. Sciences (1st Position) University of the Punjab, Lahore
<p>Reviewer for International Journals</p>	<ol style="list-style-type: none"> 1. Journal of Hazardous Materials 2. Environment International 3. Science of the Total Environment 4. Environmental Pollution 5. Journal of Cleaner Production 6. Environmental Sciences Europe 7. International Journal of Phytoremediation 8. PLOS ONE 9. Journal of Mountain Science 10. Environmental Science and Pollution Research 11. International Journal of Environmental Health Research 12. Analytical Letters 13. Polish Journal of Environmental Studies
<p>Research Supervision</p>	<p align="center">THESES SUPERVISION:</p> <ol style="list-style-type: none"> 1. Ph.D. Environmental Sciences – 03 Theses 2. MS/MPhil. Environmental Sciences – 14 Theses 3. M.Phil. Zoology – 01 Thesis 4. MSc. Environmental Sciences – 01 Thesis 5. BS Environmental Sciences – 33 Theses (65 Students)

Research Grants	<ol style="list-style-type: none">1. <i>“Study on the distribution characteristics, risk assessment and removal techniques of perfluorinated and polyfluoroalkyl substances (PFAS) in Punjab, Pakistan”</i>. Year: 2022 Sponsor: Tianjin Ministry of Human Resources and Social Security Amount: 400,000 (RMB)2. <i>“Determination of Persistent Organic Pollutants (POPs) in the Tributaries of River Ravi”</i>. Year: 2015 Sponsor: University of the Punjab, Lahore Amount: 150,000 (PKR)3. <i>“GIS Platform For Land Degradation Assessment For Sustainable Agriculture in Pakistan”</i> Year: 2014 Sponsor: University of the Punjab, Lahore Amount: 125,000 (PKR)4. <i>“Upstream petroleum activities and occupational health and safety – management system: A case study from Potwar Region, Pakistan”</i> Year: 2014 Sponsor: University of the Punjab, Lahore Amount: 250,000 (PKR)
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<p>Publications (chronological order): (* = as corresponding author)</p>	<p>SCI/SCIE Journals:</p> <ol style="list-style-type: none"> 1. M Aslam, HU Aslam, A Ali, M Baqar, W Yilin, Y Li, C Peng, Y Yao, L Wang, H Sun (2025). Reviews and Perspectives on the Separation and Characterization Techniques of Synthetic and Natural Microfibers. <i>Journal of Hazardous Materials Advances</i>, 19, 100794 (IF: 7.7). 2. L Rong, Y Wang, P Meidl, M Baqar, A Li, L Wang, H Sun (2025). Insights into soil microbial assemblages and nitrogen cycling function responses to conventional and biodegradable microplastics. <i>Journal of Hazardous Materials</i>, 491, 137889 (IF: 11.3). 3. M Aslam, W Xin, M Baqar, Y Yao, L Wang, H Sun (2025). A review on co-occurrence of microplastics and flame retardants in global aquatic environment with a focus on microfibers: sources and impacts on their toxic effects. <i>Reviews of Environmental Contamination and Toxicology</i>, 263, 4 (IF: 6.6). 4. M Baqar, H Chen, Y Yao, H Sun (2025). Latest trends in the environmental analysis of PFAS including nontarget analysis and EOF-, AOF-, and TOP-based methodologies. <i>Analytical and Bioanalytical Chemistry</i>, 417, 555-571 (IF: 3.8). 5. M Baqar, M Zhao, R Saleem, Z Cheng, H Chen, Y Yao, H Sun (2024). Nontarget Identification of Emerging Per- and Polyfluoroalkyl Substances (PFAS) in E-waste Recycling Practices and New Sources for Trifluoroacetic Acid. <i>Environmental Science & Technology</i>, 58, 16153–16163 (IF: 11.3). 6. J Cui, Y Ge, M Guo, L Zhang, S Zhang, L Zhao, Y Shi, M Baqar, Y Yao, H Zhu, L Wang, Z Cheng, H Sun (2024). Occupational exposure to traditional and emerging organophosphate esters: A comparison of levels across different sources and blood distribution. <i>Environment International</i>, 194, 109165 (IF: 9.7). 7. S Naseem, AB Tabinda, M Baqar, MA Khan, M Zia-ur-Rehman (2024). Occurrence, spatial distribution and ecological risk assessment of Organophosphate Esters in surface water and sediments from the Ravi River and its tributaries. <i>Science of the Total Environment</i>, 948, 174828 (IF: 8). 8. Y Shi, L Zhao, J Zheng, R Ding, K Li, H Zhao, M Baqar, H Zhu, Z Cheng, H Sun (2024). End-of-life vehicle dismantling activity emits large quantities of phthalates and their alternatives: New insights on environmental sources and co-exposure risks. <i>Environment International</i>, 90, 108933 (IF: 9.7). 9. B Fang, H Chen, Y Zhou, B Qiao, M Baqar, Y Wang, Y Yao, H Sun (2024). Fluorotelomer betaines and sulfonic acid in aerobic wetland soil: Stability, biotransformation, and bacterial community response. <i>Journal of Hazardous Materials</i>, 477, 135261 (IF: 11.3). 10. B Qiao, H Chen, D Song, H Yu, M Baqar, X Li, L Zhao, Y Yao, H Sun (2024). Multimedia distribution and release characteristics of emerging PFAS in wastewater treatment plants in Tianjin, China. <i>Journal of Hazardous Materials</i>, 475, 134879 (IF: 11.3). 11. S Zhang, Z Cheng, Y Cao, F He, L Zhao, M Baqar, H Zhu, T Zhang, H Sun (2024). Aromatic amine antioxidants (AAs) and p-phenylenediamines-quinones (PPD-Qs) in e-waste recycling industry park: Occupational exposure and liver X receptors (LXRs)
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- disruption potential. *Environment International*, 186, 108609 (IF: 9.7).
12. A Tahir, NA Abbasi, C He, SR Ahmad, **M Baqar**, A Qadir (2024). Spatial distribution and ecological risk assessment of short and medium chain chlorinated paraffins in water and sediments of river Ravi, Pakistan. *Science of the Total Environment*, 926, 171964 (IF: 8).
 13. Y Ge, J Cui, L Zhang, S Zhang, **M Baqar**, Z Cheng (2024). Informal E-waste dismantling activities accelerated the releasing of liquid crystal monomers (LCMs) in Pakistan: Occurrence, distribution, and exposure assessment. *Science of the Total Environment*, 932, 172987 (IF:8).
 14. M Zhao, Y Yao, X Dong, **M Baqar**, B Fang, H Chen, H Sun (2024). Nontarget Identification of Novel Per- and Polyfluoroalkyl Substances (PFAS) in Soils from an Oil Refinery in Southwestern China: A Combined Approach with TOP Assay. *Environmental Science & Technology*. 57, 48, 20194–20205 (IF: 11.3).
 15. Z Guo, Z Cheng, S Zhang, H Zhu, L Zhao, **M Baqar**, L Wang, H Sun (2024). Unexpected exposure risks to emerging aromatic amine antioxidants and p-phenylenediamine quinones to residents: evidence from external and internal exposure as well as hepatotoxicity evaluation. *Environment & Health*, 2, 278–289.
 16. **M Baqar**, R Saleem, M Zhao, L Zhao, Z Cheng, H Chen, Y Yao, H Sun (2024). Combustion of high-calorific industrial waste in conventional brick kilns: An emerging source of PFAS emissions to agricultural soils. *Science of the Total Environment*, 906, 167612 (IF: 8).
 17. T Kumail, W Ali, F Sadiq, **M Baqar** (2024). Do tourism and CO 2 emission predict technological innovation in developing countries: Examining Porter and innovative Claudia curve hypothesis. *Energy & Environment*, 36, 2454-2473 (IF: 4.8).
 18. **M Baqar***, S Naseem, AB Tabinda, Y Yao, M Shahzad, A Mahmood, A Yasar, S Zhao, G Zhang, H Sun (2023). Distribution, bioaccumulation, and health risk assessment of organochlorines across the riverine ecosystem of Punjab Province, Pakistan. *Environmental Science and Pollution Research*, 30, 98377-98388 (IF: 5.8 (JCR-2023)).
 19. R Nazar, R Qayyum, **M Baqar***, MR Tabassum, AS Nizami (2023). Waste management of solar cells in South Asia: an environmental concern of the emerging market. *Environmental Science and Pollution Research*, 31, 17760-17777 (IF: 5.8 (JCR-2023)).
 20. M Aslam, SR Ahmad, Z Imtiaz, HMU Aslam, **M Baqar**, A Qadir (2023). Risk assessment of microplastics in fish assemblage based on ecological preferences in an interconnected and polluted river system. *Human and Ecological Risk Assessment*, 29, 1109-1133 (IF: 2.7).
 21. L Zhao, Z Cheng, H Zhu, H Chen, Y Yao, **M Baqar**, H Yu, B Qiao, H Sun (2023). Electronic-waste-associated pollution of per- and polyfluoroalkyl substances: Environmental occurrence and human exposure. *Journal of Hazardous Materials*, 451, 131204 (IF: 11.3).

22. S Zhang, Z Cheng, M Yang, Z Guo, L Zhao, **M Baqar**, Y Lu, L Wang, H Sun (2023). Percutaneous Penetration of Liquid Crystal Monomers (LCMs) by In Vitro Three-Dimensional Human Skin Equivalents: Possible Mechanisms and Implications for Human Dermal Exposure Risks. *Environmental Science & Technology*. 57, 4454-4463 (IF: 11.3).
23. S Naseem, AB Tabinda, **M Baqar***, K Chohan, I Aslam, A Mahmood, A Yasar, J Li, G Zhang (2023). Organochlorines in the riverine ecosystem of Punjab province, Pakistan: contamination status, seasonal variation, source apportionment, and ecological risk assessment. *Environmental Science and Pollution Research*. 30, 40340-40355 (IF: 5.8 (JCR-2023)).
24. R Aslam, F Sharif, **M Baqar***, AS Nizami (2023). Association of human cohorts exposed to blood and urinary biomarkers of PAHs with adult asthma in a South Asian metropolitan city. *Environmental Science and Pollution Research*. 30, 35945-35957 (IF: 5.8 (JCR-2023)).
25. S Tahir, A Qadir, M Mumtaz, N Jamil, **M Baqar**, A Saeed, N Khan R Halbrook (2022). Signature tracing of PCBs congeners in breastmilk of mothers living in selected urban centers of Pakistan. *Human and Ecological Risk Assessment*, 29,1-18 (IF: 2.7).
26. R Aslam, F Sharif, **M Baqar**, AS Nizami, U Ashraf (2022). Role of ambient air pollution in asthma spread among various population groups of Lahore City: a case study. *Environmental Science and Pollution Research*, 30, 8682-8697 (IF: 5.8 (JCR-2023)).
27. R Aslam, F Sharif, **M Baqar**, L Shahzad (2022). Source identification and risk assessment of polycyclic aromatic hydrocarbons (PAHs) in air and dust samples of Lahore City. *Scientific Reports*, 12, 2459 (IF: 3.9).
28. I Aslam, **M Baqar***, A Qadir, M Mumtaz, J Li, & G Zhang (2021). Polychlorinated biphenyls in the indoor airborne dust from urban dwellings of a South Asian megacity; the distribution profile, toxicity equivalency and human health implications. *Indoor Air*, 31, 1417–1426 (IF: 4.3).
29. A Taufeeq, **M Baqar***, F Sharif, M Mumtaz, S Ullah, S Aslam, A Qadir, M Majid, H Jun. (2021). Assessment of organochlorine pesticides and health risk in tobacco farming associated with River Barandu of Pakistan. *Environmental Science and Pollution Research*, 28, 38774–38791 (IF: 5.8 (JCR-2023)).
30. I Aslam, M Mumtaz, A Qadir, N Jamil, **M Baqar**, A Mahmood, SR Ahmad, & G Zhang. (2021). Organochlorine pesticides (OCPs) in air-conditioner filter dust of indoor urban setting: Implication for health risk in a developing country. *Indoor Air*, 31, 1417–1426 (IF: 4.3).
31. F Kausar, A Qadir, SR Ahmad, **M Baqar**, F Sardar (2021). Evaluation of River Chenab water quality with respect to its users, using different classification schemes. *Water Supply*, 20, 2971-2987 (IF: 1.9 (JCR-2024)).
32. MN Anwar, A Fayyaz, NF Sohail, MF Khokhar, **M Baqar**, MUF Raja, M Rehan, M Aghbashlo, M Tabatabaei, AS Nizami. (2020). CO₂ utilization: turning greenhouse gas into fuels and valuable

- products. *Journal of Environmental Management*. 260, 110059 (IF: 8.4).
33. SN Ali, **M Baqar***, M Mumtaz, U Ashraf, MN Anwar, A Mahmood, A Qadir, SR Ahmad, AS Nizami, H Jun. (2020). Organochlorine pesticides in the surrounding soils of POPs destruction facility: source fingerprinting, human health, and ecological risks assessment. *Environmental Science and Pollution Research*. 27, 7328-7340 (IF: 5.8 (JCR-2023)).
34. R Mehmood, MH Lee, **M Baqar**, M Riaz. (2020). Application of quality control charts for early detection of flood hazards. *Polish Journal of Environmental Studies*, 29, 4241-4248 (IF: 1.3).
35. R Ullah, R Asghar, **M Baqar***, A Mahmood, A Qadir, M Sohail, SAMAS Eqani (2020). Occurrence, spatial variation, air-soil and air-water exchange, and ecological risk assessment of polychlorinated biphenyls (PCBs) in the Riverine Ecosystem of Azad Jammu and Kashmir using Passive Sampling Technique. *Chemosphere*, 240, 124762. (IF: 8.1 (JCR-2024)).
36. A Naqvi, A Qadir, **M Baqar***, A Mahmood, I Aslam, F Sajid, M Mumtaz, J Li, & G Zhang (2020). Screening of human health risk to infants associated with the polychlorinated biphenyls (PCBs) levels in human milk from Punjab Province, Pakistan. *Environmental Science and Pollution Research*, 27(7), 6837-6850 (IF: 5.8 (JCR-2023)).
37. R Ullah, R Asghar, **M Baqar***, A Mahmood, SN Ali, M Sohail, RB Schäfer, SAMAS Eqani (2019). Assessment of organochlorine pesticides in the Himalayan riverine ecosystems from Pakistan using passive sampling techniques. *Environmental Science and Pollution Research*, 26(6), 6023-6037 (IF: 5.8 (JCR-2023)).
38. KS Mahdi, G Zhang, A Fatemi, R Kiefer, K Maddah, M Baqar, MP Zakaria, G Li (2019). Impact of biochar and compost amendment on soil quality, growth and yield of a replanted apple orchard in a 4-year field study. *Journal of the Science of Food and Agriculture*, 99(4), 1862-1869 (IF: 3.5).
39. MN Anwar, A Fayyaz, NF Sohail, MF Khokhar, **M Baqar**, WD Khan, K Rasool, M Rehan, AS Nizami. (2018). CO₂ capture and storage: A way forward for sustainable environment. *Journal of Environmental Management*. 15 (226): 131-144 (IF: 8.4).
40. F Kausar, A Qadir, SR Ahmad, & **M Baqar** (2019). Evaluation of surface water quality on spatiotemporal gradient using multivariate statistical techniques: A case study of River Chenab, Pakistan. *Polish Journal of Environmental Studies*, 28 (4), 2645-2657 (IF: 1.3).
41. PM Nguyen, M Afzal, I Ullah, N Shahid, **M Baqar**, & M Arslan (2019). Removal of pharmaceuticals and personal care products using constructed wetlands: effective plant-bacteria synergism may enhance degradation efficiency. *Environmental Science and Pollution Research*, 26 (21), 21109–21126 (IF: 5.8 (JCR-2023)).
42. AB Tabinda, RA Arif, A Yasar, **M Baqar**, R Rasheed, A Mahmood, A Iqbal (2019). Treatment of textile effluents with *Pistia stratiotes*, *Eichhornia crassipes* and *Oedogonium sp.* *International Journal of Phytoremediation*, 21(10):939-943 (IF: 3.1).

43. A Naqvi, A Qadir, A Mahmood, **M Baqar***, I Aslam, F Sajid, M Mumtaz, J Li, & G Zhang. (2018). Quantification of polychlorinated biphenyls contamination using human placenta as biomarker from Punjab Province, Pakistan. *Environmental Science and Pollution Research*, 25, 14551–14562 (IF: 5.8 (JCR-2023)).
44. **M Baqar***, Y Sadeef, SR Ahmad, A Mahmood, J Li, & G Zhang (2018). Organochlorine contaminants in freshwater mussels; occurrence, bioaccumulation pattern, spatio-temporal distribution and human health risk assessment from the tributaries of River Ravi, Pakistan. *Human and Ecological Risk Assessment: An International Journal*, 24, 1268-1290 (IF: 2.7).
45. G Riaz, AB Tabinda, **M Baqar***, A Mahmood, M Mumtaz, A Qadir, A Yasar & MS Khorram (2018). Human Health Risk Surveillance through the Determination of Organochlorine Pesticides by High-Performance Liquid Chromatography in Water, Sediments, and Fish from the Chenab River, Pakistan. *Analytical Letters*, 51, 1245-1263 (IF: 1.8).
46. **M Baqar***, Y Sadeef, A Mahmood, SR Ahmad, J Li, & G Zhang (2018). Organochlorine pesticides across the tributaries of River Ravi, Pakistan: human health risk assessment through dermal exposure, ecological risks, source fingerprints and spatio-temporal distribution. *Science of the Total Environment*, 618, 291-305 (IF: 8).
47. **M Baqar**, M Arslan, SA Abbasi, U Ashraf, A Khalid & H Zahid (2018). Noise Pollution in the Hospital Environment of a Developing Country: A Case Study of Lahore (Pakistan). *Archives of Environmental and Occupational Health*, 73, 367-374 (IF: 1.4).
48. **M Baqar***, Y Sadeef, A Mahmood, SR Ahmad, A Qadir, I Aslam, J Li, & G Zhang (2017). Occurrence, ecological risk assessment and spatio-temporal variation of polychlorinated biphenyls (PCBs) in water and sediments along River Ravi and its northern tributaries, Pakistan. *Environmental Science and Pollution Research*, 24, 27913-27930 (IF: 5.8 (JCR-2023)).
49. G Riaz, AB Tabinda, S Iqbal, A Yasar, M Abbas, AM Khan, Y Mahfooz & **M Baqar** (2017). Phytoremediation of organochlorine and pyrethroids pesticides by aquatic macrophytes and algae in freshwater system. *International Journal of Phytoremediation*, 19, 894-898 (IF: 0.9).
50. W Khan, PMA Ramzani, S Anjum, F Abbas, M Iqbal, A Yasar, MZ Ihsan, MN Anwar, **M Baqar**, HM Tauqeer, ZA Virk & SA Khan (2017). Potential of miscanthus biochar to improve sandy soil health, in situ nickel immobilization in soil and nutritional quality of spinach. *Chemosphere*, 51, 1245–1263 (IF: 8.1 (JCR-2024)).
51. **M Baqar***, M Arslan, Y Sadeef, A Mahmood, A Qadir & SR Ahmad (2017). Persistent organic pollutants in Pakistan: potential threat to ecological integrities in terms of genotoxicity and oxidative stress. *Human and Ecological Risk Assessment: An International Journal*, 23, 1249-1271 (IF: 2.7).
52. K Khanum, **M Baqar**, A Qadir, M Mumtaz, A Tahir, N Jamil, & A Mahmood (2017). Heavy metal toxicity and human health risk surveillances of wastewater irrigated vegetables in Lahore District,

Pakistan. *Carpathian Journal of Earth and Environmental Sciences*, 12, 403–412 (IF:0.9).

53. N Jamil, **M Baqar***, S Ilyas, A Qadir, M Arslan, M Salman, N Ahsan, H Zahid, (2016). Use of Mercury in Dental Silver Amalgam: An Occupational and Environmental Assessment. *BioMed Research International*, Article ID 6126385 (IF: 2.3).
54. N Jamil, **M Baqar**, IA Shaikh, I Javaid, A Shahid, R Khalid, N Ahsan, A Qadir, & M Arslan (2015). Mercury contamination due to chlor-alkali plant emissions – A case study of Kala Shah Kaku, Punjab, Pakistan. *Journal of Chemical Society of Pakistan*, 37, 173-178 (IF: 0.5).
55. **M Baqar***, M Arslan, N Jamil, & H Zahid, (2016). Prevalence of Work-Related Musculoskeletal Symptoms (WMSS) among the Motorcycle Mechanics of Lahore, Pakistan. *Iranian Journal of Public Health*, 44, 1708-1709 (IF: 1.6).

HEC Recognized National Journals (X/Y Category):

1. N Jamil, **M Baqar**, M Manzoor, N Abbas, A Qadir, N Ahsan, IA Shaikh, S Munir, M Arslan, & H Zahid, (2015). Accumulation of heavy metals in edible organs of different meat products available in the markets of a less developed country. *Pakistan Journal of Scientific and Industrial Research Series B: Biological Sciences*, 58, 92-97 (HEC X- Category).
2. S Munir, **M Baqar**, N Saeed, M Zameer, & IA Shaikh (2015). Modeling Greenhouse Gases Emissions from MSW of Lahore. *Technical Journal*, 20, 50-53(HEC Y- Category).
3. **M Baqar**, A Sarwar, D Shahwar, RNazir, SShahid, IA Shaikh, MArslan, SMachado, &A Ali, (2015). Removal of Acid Yellow-73 and Direct Violet-51 Dyes from Textile Wastewater by using Iron Doped Corncob Charcoal. *Pakistan Journal of Analytical and Environmental Chemistry*, 16, 31-38 (HEC Y- Category).
4. A Mangat, IA Shaikh, FAhmed, S Munir, & **M Baqar**, (2014). Fenton Oxidation Treatment of Spent Wash-Off Liquor for Reuse in Reactive Dyeing. *Technical Journal*, 19, 43-47 (HEC Y- Category).

Other International Journals:

1. M Arslan, M Tauseef, M Gull, **M Baqar**, I Ahmad, U Ashraf, & BS Al-Tawabini, (2013). Unusual rainfall shift during monsoon period of 2010 in Pakistan: Flash flooding in Northern Pakistan and riverine flooding in Southern Pakistan. *African Journal of Environmental Science and Technology*, 7, 882-890 (International Journal).
2. M Arslan, I Ullah, **M Baqar**, & N Shahid (2016). Evolution of Flood Management Policies of Pakistan and Causes of Flooding in Year 2010. *Bulletin of Environmental Studies*. 1, 10-16 (International Journal).
3. M Zameer, B Tabassum, Q Ali, M Tariq, H Zahid, IA Nasir, W Akram, & **M Baqar**, (2015). Role of PGPR to improve potential growth of tomato under saline condition: An overview. *Life Science Journal*, 12(3s), 54-62 (GIF: 0.683).
4. MA Riaz, A Riaz, **M Baqar**, &B Ijaz, (2013). The Effect of Different NaCl concentration on the Survival of Aedes aegypti Larvae in Wahga

Town Lahore. *Journal of Basic and Applied Chemistry*, 2, 12-15 (International Journal).

5. **M Baqar**, M Arslan, & A Mahmood (2014). Characterization and Load Assessment of Wastewater Drains Outfalls Points into River Ravi, Lahore, Pakistan: An application of GIS. *Coordinates*, 10, 46-53 (International Magazine).
6. M Arslan, R Mehmood, M Riaz, & **M Baqar**, (2015). Monitoring of changes in climate during blocking event by using run rule based quality control charts. The Climate Symposium 2014, Darmstadt, Germany. (Poster Published in Proceedings)

Book Chapter:

1. MN Anwar, M Iftikhar, B Khusbakhhat, NF Sohail, **M Baqar**, A Yasir, AS Nizami (2020). Carbon Dioxide; Sources of and Environmental Issues. In the book, 'Sustainable Agriculture Reviews 37: Carbon Sequestration Vol. 1 Introduction and Biochemical Methods', edited by Inamuddin, A.M. Asiri, E. Lichtfouse. DOI: 10.1007/978-3-030-29298-0. **Publisher: Springer.**
2. SN Ali, MN Anwar, AS Nizami, **M Baqar***. 2019. Microbial and technological advancements in biogas production. In the book, 'Current Developments in Biotechnology and Bioengineering: Sustainable Bioresources for the Emerging Bioeconomy', edited by A Pandey, R Katakai, D Pant, S Khanal. DOI: 10.1016/B978-0-444-64309-4.00006-4. **Publisher: Elsevier.**
3. H Javed, MN Anwar, **M Baqar**, AS Nizami. 2019. Nanotechnology application in biofuel production: applications, challenges, and future perspectives. In the book, 'Principles of Biofuels and Hydrogen Gas: Production and Engine Performance', edited by A Nag. **Publisher: McGraw-Hill.**

Conference/Seminar Oral Presentations:

1. "Assessment of Per- and Polyfluoroalkyl Substances (PFAS) in Drinking Water Around Waste Open Dump Sites; Implications for Human Health" at the "**13th National Conference on Analytical Toxicology**" organized by Chinese Society of Toxicology on March 28-31, 2024 in Hainan Province, China.
2. "Occurrence, distribution and risk assessment of PFAS from emerging point sources in South Asia: a case study of Pakistan" at "**International Symposium on Pollution Control of Perfluoroalkyl Substances**" organized by Nankai University, China on October 20-22, 2023.
3. "Characterization and Load Assessment of Wastewater Drains Outfalls Points into River Ravi, Lahore, Pakistan: An application of GIS" at "**The 9th National GIS Symposium in Saudi Arabia**" organized by The High Committee of Geographic Information Systems at the Eastern Province on April 28-30, 2014.
4. "Accumulation of heavy metals in chicken, mutton and beef products, commercially available in the local markets of Lahore, Pakistan" at **ICAC 2013: 1st International Conference on Applied Chemistry** organized by HEC & GCUF on November 18-20, 2013.
5. "Surveillance of Persistent Organic Pollutants (POPS) in Human Milk from Selected Cities of Pakistan" at the **3rd International Conference**

on Emerging Trends in Earth and Environmental Sciences – 2021 by University of the Punjab on November 16-18, 2021.

6. “Assessment of Atmospheric Deposition of Microplastics in Agricultural Soil Cover of Urban and Peri-Urban Areas of Lahore” at the *3rd International Conference on Emerging Trends in Earth and Environmental Sciences – 2021* by University of the Punjab on November 16-18, 2021.
7. “Apportioning of Selected Heavy Metals in Environmental Strata of AJK, Pakistan” at the *2nd International Conference on Emerging Trends in Earth and Environmental Sciences – 2020* by University of the Punjab on March 04-06, 2020.
8. “Water Contamination as a Main Source of Water Scarcity in Pakistan” at the *Mid-Term Symposium on the Water Scarcity – Strategic Approach - 2019* by Pakistan Engineering Congress.
9. “Seasonal Variations in the Efficiency of Oxidation and Stabilization Ponds for the Treatment of Sewage in Faisalabad City” at the Seminar on *World Water Day - 2017 by Pakistan Engineering Congress*.
10. “Global Warming, Climate Change, Carbon Capturing, and Storage – a review” at the Seminar on *World Environment Day - 2017 by Pakistan Engineering Congress*.

Poster Presentations:

1. “Assessment of Microplastics from Laundry Wastewater of Different Areas of Lahore” at the *3rd International Conference on Emerging Trends in Earth and Environmental Sciences – 2021* by University of the Punjab on November 16-18, 2021.
2. “Investigation of Carbon Dioxide Sequestration Potential of Pure and Nano Particles Doped Biochar” at the *7th International Conference on Sustainable Solid Waste Management* by University of Athenson, Greece on June 26-29, 2019.

Newspaper Article:

1. In **Daily Times**, entitled “*Poor OSH Conditions; An Unforeseen Hazard to Pakistan Trade Economy*” published on Sunday 20th July, 2014

<p>Service Activity</p>	<p>I- SUBJECTS TAUGHT:</p> <ol style="list-style-type: none">1. Occupational Health & Safety (Theory+Practical)2. Environmental Monitoring (Theory+Practical)3. Environmental Impact Assessment (Theory + Practical)4. Noise Pollution and Controls (Theory + Practical)5. Solid Waste Management (Theory + Practical)6. Air & Noise Pollution (Theory + Practical)7. Environmental Issues (Theory)8. Introduction to Environmental Sciences (Theory + Practical)9. Environmental Governance (Theory + Practical)10. Environmental Engineering (Theory + Practical)11. Natural Resource Management (Theory)12. Participatory Environmental Decision Making & Conflict Resolution13. Integrated Management System (Practical)14. Environmental Management System (Practical)15. Environmental Chemistry (Practical)16. Analytical Chemistry (Practical)17. Hydrology in Environment (Practical)18. Hydrometeorology (Practical)19. Natural Hazards (Practical) <p>II - ADMINISTRATIVE DUTIES:</p> <p>a) Performed at the GC University Lahore.</p> <ol style="list-style-type: none">1. Member (elected), Academic Council2. B.Sc. Programme Coordinator3. Secretary, Occupational Health and Safety Committee4. Co-Advisor, Environment Protection Society5. Member, University Sports Board6. Member, University Purchase Committee7. Departmental Sports Coordinator8. Departmental Timetable Incharge9. Member, Admission Committee10. Member, Purchase Committee11. Member, Employees Affairs Committee <p>b) Performed at the University of the Punjab, Lahore.</p> <ol style="list-style-type: none">1. Student Coordinator2. Sub-coordinator Ph.D Programme3. Incharge, Laboratories Committee4. Incharge, Students Internship Committee5. Member, Hostel Committee6. Member, Admission Cell7. Member, Safety and Security Committee8. Member, Event Management Committee9. Member, Dengue Eradication Committee10. Member, Prospectus Committee11. Member, Classroom Committee12. Member, Auction Committee
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Trainings/Workshops Attended	<ol style="list-style-type: none">1. Satellite Event on the “XXII World Congress on Safety & Health at Work” by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH and ILO.2. Three days international workshop on the “Issues & Challenges of Rapid Urbanization in OIC Member States” by COMSTECH Secretariat, Pakistan.3. One week “Second Summer School on Integrated Water Resources Management” – 2018 by COMSTECH, Pakistan Metrological Department and LEAD Pakistan.4. National Workshop on the “Approaching Towards Comprehensive Elimination of Persistent Organic Pollutant in Pakistan” – 2017 by United Nations Development Programme (UNDP).5. Training Workshop on “Outcome based Education in Higher Education Institutions” – 2017 by Higher Education Commission, Pakistan.6. Training Workshop on the “Integration of Sustainable Consumption and Production in Tertiary Education Curricula” – 2017 by United Nations Environment Programme (UNEP).7. One day Midterm Symposium on the “Water Scarcity – Strategic Approach” – 2019 by Pakistan Engineering Congress.8. Three days “Second International Conference of Environment and Sustainable Development” – 2017 by the Sustainable Development Study Centre.9. Three Days “International Workshop on Adaptation to Natural Hazards in Changing Global Climate – 2012 by the OIC – COMSTECH, Islamabad.10. National Workshop on “Air Pollution and Smog in Urban Environment: from Science to Solution” – 2017 by University of Veterinary and Animal Sciences.11. One day “Faculty Development Workshop” and Smog in Urban Environment: from Science to Solution” – 2016 by University of the Punjab.12. One Day Training Workshop on the “Contaminated Site Assessment” by the University of the Punjab.13. Four Months e-Training on the topic “Green Productivity and Integrated Management Systems (ISO 9001, ISO 14001, OHSAS 18001) – 2013 by Asian Productivity Organization.14. Two Days Training course on “ EMS (ISO 14001)” – 2011 by KEC.15. Two Days Training course on “OHSAS 18001” – 2011 by KEC.16. Fifteen Days Training Course on “Land Resource Surveys Using GIS/ RS Techniques” – 2011 by Soil Survey of Pakistan.17. One Day Training Course on “Occupational Ergonomics, Selection & Use of PPEs” – 2010 by Punjab Labor Department.18. One Day Training Course on “EIA” – 2011 by Punjab Labor Department.19. Two Days Workshop on “Global Positioning System” – 2009 by University of the Punjab.20. Two Days Training Course on “Water & Wastewater Sampling” – 2011 by KEC.
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