

Dr. Muhammad Aamir

Interdisciplinary Research Academy,
Zhejiang Shuren University,
Hangzhou, Zhejiang, P.R. China

SUMMARY

No. 8 Shuren Street, Gongchenqiao Campus, Hangzhou, China

Date of Birth: 26/07/1984

Nationality: Pakistani

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Dr. Muhammad Aamir is currently working as a Research Assistant Professor in Interdisciplinary Research Academy, Zhejiang Shuren University. He has worked as postdoctoral researcher of environmental science at the College of Environmental and Resource Sciences (CERS), Zhejiang University, China. He secured his PhD degree from University of Peshawar, Pakistan in 2016. He got the overseas PhD visiting scholar scholarship from Higher Education Commission Pakistan in 2014 and studied at Zhejiang University, China under the supervision of Prof. Dr. Weiping Liu. He also worked as a Lecturer in the Department of Environmental and Conservation Sciences, University of Swat, Pakistan for a year.

He has published over 24 papers in well reputed peer-reviewed journals in the field of Environmental Sciences and Health, including Environmental Science and Technology, Journal of Hazardous Materials, Environmental Pollution and Science of the Total Environment etc. He has a total impact factor of 106 with the H-index of 14. He also serves as a reviewer for Environmental Science and Technology, Journal of Hazardous Materials and Environmental Science and Technology Letter.

His work focuses specifically on 1) environmental and human health risk assessment 2) fate, transport, mechanisms and environmental behavior of environmental contaminants 3) exposure, bioaccumulation, biota-sediment accumulation factor modeling, simulation, monitoring of contaminants and pollution control.

EDUCATION:

Jan 2017- Jan 2021	Postdoc in Environmental Sciences College of Environmental and Resource Sciences, Zhejiang University, China
Sept 2009-May 2016	Ph.D. Environmental Sciences Department of Environmental Sciences, University of Peshawar, Pakistan
Dec 2014-June 2015	Ph.D. Visiting Scholar College of Environmental and Resource Sciences, Zhejiang University, China
Sept 2004-May 2009	Bachelor in Environmental Sciences (BES 4 years) University of Peshawar, Pakistan

WORK EXPERIENCE:

June 2021-till date	Research Assistant Professor Interdisciplinary Research Academy, Zhejiang Shuren University, China
Jan 2017- Feb 2021	Postdoctoral Fellow College of Environmental and Resource Sciences, Zhejiang University, China
July 2015- Dec 2016	Research Specialist (DRR, Climate Change and Environment) Network of Disaster Management Practitioners (NDMP), Islamabad, Pakistan
Oct 2013-Dec 2014	Lecturer Department of Environmental and Conservation Sciences, University of Swat, Pakistan
Jan 2012- Oct 2013	Programme Coordinator Network of Disaster Management Practitioners (NDMP), Islamabad, Pakistan

AWARDS AND HONORS:

Year	Name	Institution
2014	Oversea scholarship "International Research Support Initiative Program"	Higher Education Commission, Pakistan
2014	Nominated as Subject Expert	University of Swat
2012	Indigenous PhD Fellowship	Higher Education Commission, Pakistan
Academic career	Achieved first grade throughout the academic's studies.	Higher Education Commission, Pakistan/Board of Intermediate and Secondary School Certification

JOURNAL PUBLICATIONS:

1. **Aamir, M.**, Yin, S., Liu, T., Ullah, H., Khan, S., Liu, W., 2020. Dietary exposure and cancer risk assessment of the Pakistani population exposed to polycyclic aromatic hydrocarbons. *Science of the Total Environment*. (Accepted). **IF: 7.9**
2. **Aamir, M.**, Yin, S., Zhou, Y., Xu, C., Liu, K., Liu, W. 2019. Congener-specific Mother-Fetus Distribution, Placental Retention, and Transport of C₁₀₋₁₃ and C₁₄₋₁₇ Chlorinated Paraffins in Pregnant Women. *Environmental Science & Technology*. <http://dx.doi.org/10.1021/acs.est.9b02116>. **IF: 7.86**.
3. **Liu, Y***, **Aamir, M***, Li, M., Liu, N., Xu, Y., Du, Y., Xu, J., Hu, Y., Liu, W. 2019. Prenatal and postnatal exposure risk assessment of chlorinated paraffins in mothers and neonates: Occurrence, congener profile, and transfer behavior. *Journal of Hazardous Materials*. 395, 122660. <https://doi.org/10.1016/j.jhazmat.2020.122660>. **IF: 9.03**.
4. **Aamir, M.**, Yin, S., Zhou, Y., Xu, C., Liu, K., Liu, W., 2019. Congener-specific C₁₀-C₁₃ and C₁₄-C₁₇ chlorinated paraffins in Chinese agricultural soils: Spatio-vertical distribution, homologue pattern and environmental behavior. *Environmental Pollution*. 245, 789-798. <http://dx.doi.org/10.1016/j.envpol.2018.10.132>. **IF: 6.79**
5. **Aamir, M.**, Khan, S., Li, G., 2017. Dietary exposure to HCH and DDT congeners and associated cancer risk based on Pakistani food consumption. *Environmental Science and Pollution Research*. DOI.org/10.1007/s11356-017-1129-1. **IF: 3.00**
6. **Aamir, M.**, Khan, S., Nawab, J., Qamar, Z., Khan, A. 2016. Tissue distribution of HCH and DDT congeners and human health risk associated with consumption of fish collected from Kabul River, Pakistan. *Ecotoxicology and Environmental Safety*, 125: 128-134. DOI:10.1016/j.ecoenv.2015.12.005. **IF: 4.87**
7. **Aamir, M.**, Khan, S., Niu, L., Zhu, S., Kha, A., Qamar, A. 2016. Occurrence, enantiomeric signature and ecotoxicological risk assessment of HCH isomers and DDT metabolites in sediments from Kabul River, Pakistan. *Environmental Geochemistry and Health*. DOI 10.1007/s10653-016-9847-8. **IF: 3.25**
8. **Aamir, M.**, Khan, S., Xub, C., Qamar, Z., Khan, A., 2016. Congener-specific evaluation of biota-sediment accumulation factor model for HCHs and DDTs under small scale in situ riverine condition. *Journal of Soils and Sediments*. DOI 10.1007/s11368-016-1579-y. **IF: 2.79**.
9. An, Q., **Aamir, M.**, Mao, S., Liu, Y., Wang, Y., Zheng, P., Liu, W. 2021. Current pollution status, spatial features, and health risks of legacy and emerging halogenated flame retardants in agricultural soils across China. <https://doi.org/10.1016/j.scitotenv.2021.150043>
10. Gao, Y., Yin, S., Wang, H., Zhang, J., Liu, Y., **Aamir, M.**, Liu, W. 2021. Polychlorinated biphenyls (PCBs) in the colostrum samples from the Yangtze River Region: Exposure profile and risk assessment. *Environmental Pollution*. <https://doi.org/10.1016/j.envpol.2021.117253>

11. Xu, C., Zhang, B., Gua, C., Shen, C., Yin, S., **Aamir, M.**, Li, F., 2020. Are we underestimating the sources of microplastic pollution in terrestrial environment? *Journal of Hazardous Materials*. <https://doi.org/10.1016/j.jhazmat.2020.123228>. **IF: 9.03**
12. Zhao, L., Chen, F., Yin, S., Xie, J., **Aamir, M.**, Gao, Y., Liu, S., Liu, W., 2019. Enantioselectivity in Transplacental Transfer of Perfluoro-1-methylheptanesulfonate (1m-PFOS): Human
13. Biomonitoring and in Silico Study. *Environmental Pollution*. 261 , 114136. <https://doi.org/10.1016/j.envpol.2020.114136>. **IF: 6.79**
14. Yin, S., Guo, F., **Aamir, M.**, Liu, Y., Tang, M., Liu, W., 2019. A Multicenter Biomonitoring of Polybrominated diphenyl ethers (PBDEs) in colostrum from China: Body Burden Profile and Risk Assessment. *Environmental Research*. <https://doi.org/10.1016/j.envres.2019.108828>. **IF: 5.73**
15. Khan, S., Khan, A., Khan, M.A., **Aamir, M.**, 2019. Arsenic interaction and bioaccumulation in food crops grown on degraded soil: effect on plant nutritional components and other dietary qualities. *Land degradation and development*. <https://doi.org/10.1002/ldr.3392>. **IF: 4.34**
16. Zhou, Y., **Aamir, M.**, Liu, K., Yang, F., Liu, W., 2018. Status of mercury accumulation in agricultural soil across China: Spatial distribution, temporal trend, influencing factor and risk assessment. *Environmental Pollution*. <https://doi.org/10.1016/j.envpol.2018.03.086>. **IF: 6.79**
17. Khan, A., Khan, S., Khan, M.A., **Aamir, M.**, Ullah, H., Nawab, J., Rehman, I.R., Shah, R., 2018. Heavy metals effects on plant growth and dietary intake of trace metals in vegetables cultivated in contaminated soil. *International Journal of Environmental Science and Technology*. DOI/10.1007/s13762-018-1849-x. **IF: 2.04**
18. Qamar, Z., Khan, S., Khan, A., **Aamir, M.**, Nawab, J., Waqas, M.2017. Appraisalment, source apportionment and health risk of polycyclic aromatic hydrocarbons (PAHs) in vehicle-wash wastewater, Pakistan. *Science of The Total Environment* 605-606:106-113. **IF: 6.55**
19. Zhu, S., Niu, L., **Aamir, M.**, Zhou Y., Xu C., Liu, W. 2017. Spatial and seasonal variations in air-soil exchange, enantiomeric signatures and associated health risks of hexachlorocyclohexanes (HCHs) in a megacity in the Yangtze River Delta, China. *Science of the Total Environment*. 599: 264-272. **IF: 6.55**
20. Nawab, J., Li, G., Khan, S., Sher, H., **Aamir, M.**, Shamsad, I., Khan, A., Khan, M.A. 2016. Health risk assessment from contaminated foodstuffs: a field study in chromite mining-affected areas northern Pakistan. *Environmental Science and Pollution Research*. DOI 10.1007/s11356-016-6379-9. **IF: 3.00**
21. Khan, B., Ullah, H., Khan, S., **Aamir, M.**, Khan, A., Khan, W. 2016. Sources and Contamination of Heavy Metals in Sediments of Kabul River: The Role of Organic Matter in Metals Retention and Accumulation. *Soil and Sediment Contamination*, 25: 891-904. DOI: 10.1080/15320383.2016.1224226. **IF: 0.99**
22. Nawab, J., Khan, S., **Aamir, M.**, Shamsa, I., Qamar, Z., Din, I., Huang, Q. 2015. Organic amendments impact the availability of heavy metal(loid)s in mine-impacted soil and their phytoremediation by *Penisitum americanum* and *Sorghum bicolor*. *Environmental Science and Pollution Research*. DOI 10.1007/s11356-015-5458-7. **IF:3.0**

23. Khan, A., Khan, S., Alam, M., Khan, M.A., **Aamir, M.**, Qamar, Z., Rehman, Z.U., Perveen, S. 2015. Toxic metal interactions affect the bioaccumulation and dietary intake of macro-and micro-nutrients. *Chemosphere*, 146: 121–128. DOI 10.1016/j.chemosphere.2015.12.014. **IF: 5.77.**
24. Ullah, S., Faiz, P., **Aamir, M.**, Sabir, M.A., Mahmood, Q., 2019. Occurrence and spatio-vertical distribution of DDT in soils of abandoned DDT factory area, Amangarh, Pakistan. *SN Applied Sciences*. <https://doi.org/10.1007/s42452-019-0830-8>.

Note: *These authors contributed equally to this work

RESEARCH ARTICLES (Under review):

25. Khan, S., Liang, X., **Aamir, M.**, Jin, Y., Niyungeko, C., Osseini, S.H., Jin, J Chinese brake fern, *Pteris Vittata*: A barrier for colloidal Phosphorus release in manure amended soils. *Environmental Pollution* (under review)
26. Khan, S., Liang, X., Jin, Y., **Aamir, M.**, Niyungeko, C., Osseini, S.H., Jin, J., Eltohamy, K., 2019. Effect of Phytate Exudation from *Pteris Vittata* on FePO_4 Dissolution and Plant Growth. *Environmental Science and Technology* (under review).


CONFERENCES:

1. **Aamir, M.**, Yin, S., Liu, W. 2020. "Congener-specific Mother-Fetus Distribution, Placental Retention, and Transport of C_{10-13} and C_{14-17} Chlorinated Paraffins in Pregnant Women". 17th International Symposium on Persistent Toxic Substances. Crete, Greece, Oct 25-29.
2. **Aamir, M.**, Yin, S., Liu, W. 2019. "Congener-specific C_{10-13} and C_{14-17} chlorinated paraffins in Chinese agricultural soils: Spatio-vertical distribution, homologue pattern and environmental behavior". 16th International Symposium on Persistent Toxic Substances. New Jersey, USA, Oct 25-29.
3. **Aamir, M.**, Khan, S., Liu, W. 2017. "Tissue distribution of HCH and DDT congeners and human health risk associated with consumption of fish collected from Kabul River, Pakistan". The 9th National Conference on Environmental Chemistry. China Chemical Society, Hangzhou, Zhejiang, China Oct 19-22.

PROJECTS:

- Transplacental transfer of chlorinated paraffins: A study of Paired Maternal, Cord Sera, and Placentas 2020
- Congener-specific short-and medium chain chlorinated paraffins in soil across China: Spatio-vertical distribution, homologue patterns and source apportionment. 2018
- Occurrence and accumulation of HCHs and DDTs in water, sediments and edible fish species of Kabul River, Pakistan. 2016
- Assessment of drinking water quality parameters of selected schools from district Peshawar, Pakistan 2007

LIST OF MASTER AND Ph.D. DISSERTATIONS SUPERVISED:

 During my tenure as a Lecturer at University of Swat, Pakistan, and as a Postdoc Fellow at Zhejiang University, China, I have supervised/co-supervised a number of Master and PhD dissertations.

- Yingxue Liu (2020):** Prenatal and postnatal exposure risk assessment of chlorinated paraffins in mothers and neonates: Occurrence, congener profile, and transfer behavior, **Ph.D.** of Environmental Science, Zhejiang University.
- Yuting Zhou (2018):** Status of mercury accumulation in agricultural soil across China: Spatial distribution, temporal trend, influencing factor and risk assessment. **Master** of Environmental Science, Zhejiang University.
- Siyu Zhu (2017):** Spatial and seasonal variations in air-soil exchange, enantiomeric signatures and associated health risks of hexachlorocyclohexanes (HCHs) in a megacity Hangzhou in the Yangtze River Delta region, China. **Master** of Environmental Science, Zhejiang University.
- Habib ullah (2016):** Sources and Contamination of Heavy Metals in Sediments of Kabul River: The Role of Organic Matter in Metals Retention and Accumulation. **M.Phil.** of Environmental Sciences, University of Peshawar
- Sana ullah (2014):** Occurrence and spatio-vertical distribution of DDT in soils of abandoned DDT factory area, Amangarh, Pakistan. **M.Phil.** of Environmental Sciences, University of Swat.
- Hamdard Ali (2014):** Assessment of drinking water quality parameters of selected schools and colleges of Mingora, from district Swat, KP Pakistan. **Master** of Environmental Sciences, University of Swat.
- Neelab Khan (2014):** The effects of marble industries effluents on the soil and water quality in Swat, Northern Pakistan. **Master** of Environmental Sciences, University of Swat.

PROFESSIONAL SHORT COURSES AND TRAINING CERTIFICATION:

- | | |
|-------------------|---|
| Dec 2014-Jun 2015 | Advance Senior Researcher
College of Environmental and Resource Sciences, Zhejiang University, China |
| Jun.10-14, 2013 | CADRE Master Instructor Workshop (MIW)
Asian Disaster Preparedness Center (ADPC), Bangkok, Thailand |
| May 31, 2013 | Indoor Ambient Air Pollution
Environmental Protection Agency, Govt. of Khyber Pakhtunkhwa, Pakistan |
| Apr 10, 2013 | Review and Finalization of State of Environment Report (SOER) of Khyber Pakhtunkhwa
Environmental Protection Agency, Govt. of Khyber Pakhtunkhwa and National Environment Information Management System (NEIMS) Ministry of Climate Change, Govt. of Pakistan |
| Mar 11-15, 2013 | Effective Communication and Presentation Skills
Pakistan Academy for Rural Development (PARAD), Pakistan |
| Oct 22-24, 2012 | Camp Coordination and Camp Management
National Institute of Disaster Management(NIDM) and International Organization for Migration (IOM), Pakistan |
| Sept 10-18, 2012 | Community Action for Disaster Response (CADRE Training for Instructor)
Asian Disaster Preparedness Center (ADPC), Bangkok, Thailand |
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Sept 06-08, 2012	Community Action for Disaster Response(CADRE Basic) Asian Disaster Preparedness Center (ADPC), Bangkok, Thailand
Jun 11-15, 2012	Community Based Disaster Risk Management RedR UK, Pakistan
Mar 12-25, 2012	TOT on Community Based Disaster Risk Management (CBDRM) Malteser International and Cooperation Pakistan Federal Republic of Germany
Nov 08-12, 2010	Disaster Risk Management for KP and FATA National Disaster Management Authority(NDMA), Pakistan

TRAINING ORGANIZED AND FACILITATED:

Feb. 11-13, 2013	Disaster Risk Management (DRM), for KP Government Officials Provincial Disaster Management Authority (PDMA) KP, Pakistan
Dec. 13-14, 2012	District health operational and response plan for health facilities in District Kohistan (Course designed for Paramedical staff) Malteser International, Pakistan
Dec. 3-7, 2012	District health operational and response plan for health facilities in District Kohistan (Course designed for Doctor) Malteser International, Pakistan

Nov. 7-10, 2012	Community Based Disaster Risk Management (CBDRM) International Organization for Migration (IOM), Pakistan
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Sept. 10-18, 2012	CADRE Training for Instructor, Community Action for Disaster Response Asian Disaster Preparedness Center (ADPC), Bangkok, Thailand
Sept. 6-8, 2012	CADRE Basic, Community Action for Disaster Response Asian Disaster Preparedness Center (ADPC), Bangkok, Thailand
Aug. 27-31, 2012	Community Based Disaster Risk Management (CBDRM) World Vision International, Pakistan
May 7-10, 2012	Emergency Response and Disaster Risk Management (DRM) Professional Development Center (PDC), National University of Science and Technology (NUST)

FIELD SURVEYS:

Feb 24, 2013	Margalla Clean-up Operation held at Margalla Hills, Islamabad
Jul 07-14, 2008	Monitoring and inspection of Thanda Dam National Park, Kohat, Pakistan. Sponsored by Wildlife Department, Forestry Department and Department of Environmental Sciences, University of Peshawar.
Jun 07-16, 2008	Field survey of environmental non-government organizations (NGOs) working in Gilgit-Baltistan, Pakistan. Sponsored by Department of Environmental Sciences, University of Peshawar.
Jun 05-11, 2007	Environmental Impact Assessment (EIA) study of Ayubia National Park, Pakistan. Sponsored by WWF, SUNGI, Forestry Department, and Department of Environmental Sciences, University of Peshawar.
Jun 15-18, 2006	Geological survey of mountainous ranges of warsak dam and Kohat district, Pakistan. Sponsored by Department of Environmental Sciences, University of Peshawar.

BOOKS/TECHNICAL REPORTS:

1. District health operational and response plan for health facilities in District Kohistan. Submitted to Malteser International Organization.
2. Vulnerability, Capacity Assessment Report. Submitted to Doaba Foundation, Pakistan.
3. Hazard, Vulnerability and Capacity Assessment Report. Submitted to Caritas International, Pakistan.
4. Community Based Disaster Risk Management. Submitted to International Organization for Migration (IOM).
5. Training of Trainers on Community Based Disaster Risk Management (TOTCBDRM). Submitted to World Vision, Pakistan.
6. Disaster Risk Management. Submitted to Provincial Disaster Management Authority (PDMA) KP, Pakistan.

COUNTRIES VISITED:

- | | |
|-----------------------------------|---------------|
| 1. United States of America (USA) | 3. China |
| 2. United Arab Emirates (UAE) | 4. Bangladesh |

LANGUAGES:

- | | |
|-----------|----------------------|
| • English | • Urdu |
| • Pashto | • Chinese (learning) |

TECHNICAL SKILLS:

- | | |
|----------------------|--|
| • Gas Chromatography | • OriginLab |
| • ArcMAP (GIS) | • SigmaPlot |
| • Corel draw | • Statistical Package for Social Sciences (SPSS) |

Note: References will be provided if required