

CURRICULUM VITAE



FULL NAME (in block letters) HAMAAD RAZA AHMAD (Associate Professor)

NATIONAL I.D. CARD NO.

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DATE OF BIRTH January, 1969

FATHER'S NAME: Dr. Mushtaq Ahmad

ADDRESS:

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13. EDUCATIONAL QUALIFICATIONS

Degrees obtained	Name & Place of University & College	CGPA	Division/ Percentage	Marks Obtained	Total Marks	Major Subject
Ph.D	Univ. Agri. Faisalabad	3.92	--	--	--	Soil Sci.
M.Sc(Hons)Agri.	Univ. Agri. Faisalabad	3.79	77.85	654	840	Soil Sci.
B.Sc(Hons)Agri.	Univ. Agri. Faisalabad	3.69	76.15	3046	4000	Agric.

Post-Doctorate

Certificate / Diploma obtained	Name and Place of Institution	Years attended		Major Subject/ Specialization
		From	To	
Post-Doctorate	USDA-ARS, US Salinity Laboratory, Riverside, California, USA	Jan – Sept.2011		Spatio-temporal distribution oh heavy metals for a field- scale assessment of the impact of dairy lagoon water using Geophysical techniques
Certification	ESRI, USA	Mar. 12, 2026		Going Places with Spatial Analysis
Certification	NASA, USA	Aug.27, 2025		Fundamentals of Remote Sensing
Certification	EAWAG Aquatic research, Switzerland	Aug. 15, 2025		Municipal Solid Waste Management in Developing Countries
Certification	ESRI, USA	Mar. 27, 2025		GIS for Climate Action
Certification	University of Western Australia	Mar.16, 2025		Discover Best Practice Farming for a Sustainable 2050
Certification	The Hong Kong University of Science and Technology	July01, 2025		Introduction to Indoor Air Quality
Certification	UC Davis, USA	Sept. 9, 2025		Specialized Course on GIS
Certification	University of Agriculture, Faisalabad	Nov.25-27, 2025		Senior Faculty Training and Professional Development
Certification	American Society of Agronomy	July 31, 2024		Extending sustainability in Agriculture to benefits beyond the field

Certification	American Society of Agronomy	July 30, 2024	P removal structures: Design, Construction, and Management
Certification	University of Copenhagen	August, 2023	Air pollution: a Global threat to our Health
Certification	University of Toronto	September 19, 2023	Introduction to GIS mapping
Certification	University of Toronto	October 09, 2023	Spatial Analysis and Satellite Imagery in a GIS
Certification	UC Davis, USA	November 17, 2023	Geospatial and Environmental Analysis
Certificate	HEC, Islamabad	February 13-17, 2023	Research Capacity Building programme for Grant Reviewers
Certificate	University of Agriculture, Fsd	March 13-17, 2023	Application of Geo-Spatial Techniques for Agriculture Resource Management
Certificate	American society of Agronomy: SSSA, USA.	Jan. 26, 2022	Drones, Cameras, Droplets and More-Latest Technologies for crop Sprays.
Certificate	Web of Science Academy	August 02, 2022	Reviewing in the Science
Certificate	Environ. System Research (Virtual Camp.)Inst. NY. USA	June 09, 2022	Imagery in Action
Certificate	American society of Agronomy: SSSA, USA	July 28, 2021	. How Drone Mapping Is Used in Trial Management and Statistical Analysis

Certificate	Sustainable N management for ecosystem restoration	June 4, 2021	Word Environ. Day Webinar, UAF
Certificate	Sulfur: Nutrient cycling and Fertilization Management in row crop	Feb. 19, 2021	American society of Agronomy: SSSA, USA.
Certificate	Dissecting the scholarly publishing process: An overview and guidance on publishing	Feb 01, 2021	webinar of John Wiley & Sons, publishing company
Certificate	Measures of soil water recycling	July 22, 2020	Soil Science Society of America, USA
Certificate	Standard precautions: Environmental cleaning & disinfection	June 07, 2020	Online course WHO
Certificate	Standard Precaution: Waste Management	May 18, 2020	Online course WHO
Certificate	Election commission, Pakistan	2018	Two days training of presiding officers and senior assistant presiding officers – GE 2018.
Certificate	Univ. Agri. Faisalabad	July 10 to August 05, 2017	Two weeks training of instructors of in services Agricultural training Institutes
Certificate	Univ. Agri. Faisalabad	October 17, 2016	Strategic use of digital technology in University Instruction
Certificate	Environ. System Research (Virtual Camp.)Inst. NY. USA	June 13, 2016	Basics of Geographic coordinate systems
Certificate	Univ. Agri. Faisalabad	April 4-5, 2016	National grants writing workshop

Certificate	NUST, Islamabad	December 21, 2015	Nutrient flow modeling using SWAT model
Certificate	Univ. Agri. Faisalabad	August 26-27, 2015	Remote sensing and digital image processing for precision Agriculture
Certificate	Environ. System Research (Virtual Camp.)Inst. NY. USA	April 19, 2015	Going places with spatial analysis
Certificate	Univ. Agri. Faisalabad	February 3-15, 2014	Remote sensing for monitoring Agricultural crops and assessing soil salinity
Certificate	Univ. Agri. Faisalabad	May 24 to June 14, 2013	Introduction to R programming language for statistical computing
Certificate	Environ. System Research (Virtual Camp.)Inst. NY. USA	April 26, 2013	ArcGIS Data Interoperability Basics
Certificate	USDA-ARS, US Salinity Laboratory, Riverside, California, USA.	September 5, 2011	Spatio-temporal assessment of heavy metals using GIS
Certificate	Environ. System Research (Virtual Camp.)Inst. NY. USA	April 13, 2011	Getting started with GIS
Certificate	Environ. System Research (Virtual Camp.)Inst. NY. USA	April 5, 2011	Mobile GIS: Creating web maps for lightweight mobile Apps
Certificate	Environ. System Research (Virtual Camp.)Inst. NY. USA	March 31, 2011	Using ArcMap in ArGIS Desktop 10

Certificate	Environ. System Research (Virtual Camp.)Inst. NY. USA	February 28, 2011	Editing in ARCGIS DESKTOP 10
Certificate	Univ. Agri. Faisalabad	Nov. 29 to Dec. 26, 2010	Remote Sensing and Digital Image Processing
Certificate	Environ. System Research (Virtual Camp.)Inst. NY. USA	May 23, 2007	Migrating from Arc View 3.x to Arc GIS Desktop
Certificate	Environ. System Research (Virtual Camp.)Inst. NY. USA	July 12, 2007	Working with Arc Pad
Certificate	Environ. System Research (Virtual Camp.)Inst. NY. USA	May 29, 2007	Introduction to Arc GIS 9 Geo-statistical Analyst
Certificate	Geo-Research 291-M, Model Town, Lhr.	October,01,2001 to December. 31, 2001	Geographic info rmation System and Remote Sensing
Certificate	Centre of Excellence in Water Resources Engineering, UET, Lhr.	July, 22 to 27, 2002	Ground water computer Modeling
Certificate	Pakistan Computer Bureau, Islamabad	April 14, 2002 to May, 14, 2004	Web engineering
Certificate	Pakistan Computer Bureau, Islamabad	Feb 18, 2002 to March 18, 2002	Net Working

Certificate	Univ. Agri. Faisalabad	August 13-27, 2007	Research orientation program
Certificate	Environ. System Research (Virtual Camp.)Inst. NY. USA	March 31, 2011	Using ArcMap in ArGIS Desktop 10

NUMBER OF STUDENTS GUIDED

	M.Sc. or equivalent	M.Sc. (Hons.)/M.Phil	Ph.D.
As major Supervisor		64	02 (Thesis submitted)
As committee Member		80	03

DISTINCTION:

Academic: Merit scholarship holder during B.Sc (Hons) Agri

Postdoc fellowship 2010 of Higher Education commission, Islamabad, Pakistan

PUBLICATIONS

Papers Published in HEC Recognized Journals

S.No	Authors	Year	Title	Name of Journal with Volume and Page No.	ISSN No.	Category
1	Hussain, S.I., A. Ghafoor, G. Murtaza, M. A. Aziz and H.R. Ahmad	2004	Effect of soil applied lime on retention and transport of lead and chromium applied in irrigation water	Pak. J. Soil Sci., 23: 68-77.	2074-9546	Y
2	Ghafoor, A., M. Qadir, G. Murtaza and H.R. Ahmad.	1997	Estimation of SAR _d w from SAR _i w under field conditions.	Pak. J. Soil. Sci. 13: 28-34.		Y
3	Ghafoor, A., M. Qadir, G. Murtaza and H. R. Ahmad.	1998	Strategies to harvest sustainable rice and wheat yields using brackish water for irrigation.	J. Arid Land Studies vol. 7S. pp. 165-169.		
4	Ghafoor, A., M. Qadir, G. Murtaza and H. R. Ahmad.	1998	Cycling Tile Drain water for crops production and reclamation of Aquatic Haplagid soil.	J. Arid Land Studies vol. 7S. pp. 179-182.		
5	Ahmad, N., M.A. Javed, M.T. Yamin, C.	2002	Hydro geochemical ion transport modeling for rating	Pak. J. Environ. 2:67-75.		

	Karamat and H.R. Ahmad.		groundwater quality of a soil-water system.			
6	Javed, W., G. Muratza, H.R. Ahmad and ,M.M. Iqbal.	2014	A preliminary assessment of air quality index (AQI) along a busy road in Faisalabad metropolitan, Pakistan	Pakistan, Int. J. Environ. Sci. 5: 623-633	0976 – 4399	
7	Mehmood, K, H.R. Ahmad , A.A. Abid, Saifullah and P. Guo	2018	A Preliminary Assessment and Control Strategy of Size Segregated Pollutants in Urban and Peri-urban Areas of Metropolitan Faisalabad, Pakistan	Pak. J. Anal. Environ. Chem. Vol. 19, No. 2	2221-5255	Y
8	Arshad, M.N., S.A. Wajid, A. Ahmad, F. Rasul, H.R. Ahmad M. Awais and M.H. Rehman	2019	Yield Forecasting and Spatial Analysis of Sunflower Productivity Using GIS	Asian J. Geo informatics 18: 1-8.		
9	Y, Sanaullah, H. R. Ahmad, M.A. Shehzad, M. Sohaib, Saifullah and A. Mahmood	2020	Characterizing spatial distribution of chemical properties and heavy metal contamination in ground water using GIS	Plant Environ. 01:35-47		

Papers Published in Journals having Impact Factor

S.No	Authors	Year	Title	Name of Journal with Volume and Page No.	ISSN No.	Impact Factor
1.	Aslam, M. H.R. Ahmad, R.H. Qureshi, S. Nawaz and S. Parveen	1995	Effect of salinity and waterlogging interaction on the growth and ionic distribution in leaves of wheat genotypes	Pak. J. Agri. Sci. 4:282-291.	0552-9034	1.24 X
2.	Aziz, M.A., A. Ghafoor, Saifuallh, H.R. Ahmad. M. Sabir	2007	Effect of Glucose and acetic acid on Ni, Pb and Zn transformation in contaminated soil	Pak. J. Agri. Sci. 44:228-235.	0552-9034	1.24 X
3.	Rehman, M .Z., A.Ghafoor, M.	2008	Extract ants for assessment of phyto	Pak. J. Agri. Sci. 45:11-17.	0552-9034	1.24 X

	Sabir, Saifullah, A. Naeem and H.R. Ahmad.		available cadmium to rice growing in Cd contaminated soils			
4.	H. R. Ahmad, M. Abbas Aziz, A. Ghafoor, M .Z. Rehman, M . Sabir ,Saifullah.	2011	Wheat assimilation of nicke and zinc added in irrigation water as affected by organic matter	J. Plant Nutr. 34:1–7.	0190-4167.	0.64 W
5.	Ahmad, H.R. A, A. Ghafoor, D.L. Corwin, M .A. Aziz and Saifullah	2011	Organic and inorganic amendmets affect soil concentration and accumulation of Cd and Pb in wheat in calcareous alkaline soils.	Commun. Soil Sci. Plant Anal. 42:111–122.	0010-3624	0.51X
6.	Sabir, M ., A. Ghafoor, Saifullah, M .Z.Rehman, H.R. Ahmad , T.Aziz.	2011	Growth and Metal Ionic Composition of Zea mays as Affected by nickel Supplementation in the Nutrient Solution	Int. J. Agro. Bio. 2: 186-190.	1560-8530	0.94 Y
7.	H. R. Ahmad, T. Aziz,S. Hussain,M . Akraam, M . Sabir, S.R. Kashif and M. Hanafi	2012	Zinc – enriched farm yard manure improves grain yield and grain zinc concentration in rice grown on a saline-sodic soil.	Int. J. Agri. Biol. 14-5: 787 – 792.	1560-8530	0.94 Y
8.	Rehman, K., M . Yaseen, H.R. Ahmad and A. Kirn	2012	Improving seed germination and pod yield on okra (<i>Hibiscus esculentus</i> L.) using calcium carbide – A new source of ethylene.	J. Plant Nutr. 35: 2024- 2036.	0190-4167	0.64 W
9.	Sabir, M. M.M. Hanfi. M.T. Malik, T. Aziz, M.Z. Rehman, H.R. Ahmad, K.R. Hakeem and M. Shahid	2013	Differential effect of nitrogen forms on physiological parameters and micronutrient concentration in maize (<i>Zea mays</i> L.)	Aust. J. Crop Sci. 12: 1836-1842.	1835-2693	1.63 Y
10.	Sabir, M., M.M. Hanafi, T.Aziz, H.R. Ahmad, M. Z. Rehaman, Saifullah, G. Murtaza and K.R. Hakeem.	2013	Comparative Effect of Activated Carbon, Press mud and Poultry Manure on Immobilization and Concentration of Metals in Maize	Int. J. Agri. Biol. 15-3: 559 – 564.	1560-8530	0.94 Y

			(<i>Zea mays</i> L.) grown on Contaminated Soil			
11.	Sabir, M. M.M. Hanfi. M.Z. Rehman, Saifullah, H.R. Ahmad and T.Aziz	2014	Comparison of Low molecular weight organic acids and ethylene diamine tetra acetic acid to enhance phyto- extraction of heavy metals by maize (<i>Zea mays</i> L.).	Commun. Soil Sci. Plant Anal. 45:42-52	0010- 3624	0.51X
12.	M.A, Maqsood, S. Hussain, T. Aziz, M. Ahmad, M.A.Naeem, H.R. Ahmad , S. Kanwal and M. Hussain.	2015	Zinc indexing in Wheat grains and associated soils of southern Punjab	Pak. J. Agri. Sci. 52: 429-436.	0552- 9034	1.24 Y
13.	Corwin, L.D. and Hamaad Raza Ahmad	2015	Spatio-temporal impacts of dairy lagoon water reuse on soil: heavy metals and salinity.	Environmental Science: Processes & Impacts. 17: 1731-1748.	2050- 7887	2.11W
14.	Javed, W., A.S. Wexler, G. Muratza, H.R. Ahmad and S,M.A. Basra.	2015	Spatial, temporal and size distribution of particulate matter and its chemical constituents in Faisalabad, Pakistan	Atmosfera 28: 99-116.	0187- 6236	1.44 X
15.	Aziz, H., M. Sabir, H. R. Ahmad , T. Aziz, M. Z. Rehman, K. R. Hakeem and M. Ozturk	2015	Alleviating effect of calcium on nickel toxicity in rice.	Clean Soil Air Water 43:901-909 doi.org/10.1002/clen.201400085	1863- 0669	1.84 Y
16.	Ashraf, S., F. Abbas, M. Ibrahim, U. Rashid, S. Khalid, H.R. Ahmad , K.R. Hakeem and T. Majeed.	2015	Application of GIS for the identification and demarcation of selective heavy metal concentrations in the urban groundwater	J. Geogr. Sci. 25: 225-235.	1009- 637X	1.12W
17.	Ahmad, M, M.H. ElSaeid, M.A. Akram H.R. Ahmad , H	2016	Silicon fertilization a to boost up drought tolerance in wheat (<i>Triticum</i>	J. Plant Nutr. 39: 1283-1291	0190- 4167	0.75

	. Haroon and A. Hussain.		<i>aestivum</i> L.) crop for better yield			
18.	M.Z. Rehman, M. Rizwan, S. Ali, N. Fatima, B. Yousaf, A. Naeem, M. Sabir, H.R. Ahmad and Y.S. Ok	2016	Contrasting effects of biochar, compost and farm manure on alleviation of nickel toxicity in maize (<i>Zea mays</i> L.) in relation to plant growth, photosynthesis and metal uptake.	Ecot. Environ. Safe .133: 218–225.	0147-6513	4.53W
19.	M.Z. Rehman, M. Rizwan, M. Sabir, Shahjan, S. Ali and H.R. Ahmad	2016	Comparative effects of different soil conditioners on wheat growth and yield grown in saline-sodic soils.	Sains malaysiana 45: 339-346. ISSN:	0126-6039	0.54W
20.	Aziz, M.A., H.R. Ahmad , D.L. Corwin, M. Sabir, M. Ozturk and M. K.R. Hakeem.	2017	Influence of farmyard manure on retention and availability of nickel, zinc and lead in metal-contaminated calcareous loam soils	Jeelm 25:289-296 DOI: 10.3846/16486897.2016.1254639.	1822-4199	2.23 X
21.	M.Z. Rehman, M. Rizwan, M.I. Sohail, S. Ali, A.A. Waris, H. Khalid, A. Naeem, H.R. Ahmad and A. Rauf	2019	Opportunities and challenges in the remediation of metal-contaminated soils by using tobacco (<i>Nicotiana tabacum</i> L.): a critical review	Environ. Sci. Pollut. Res. 26:18053-18070	0944-1344	2.91W
22.	H.R. Ahmad , K. Mehmood, M.F. Sardar, M.A. Maqsood, M.Z. Rehman, C. Zhu and H. Li.	2019	Integrated risk assessment of potentially toxic elements and particle pollution in urban road dust of megacity of Pakistan	Hum. Ecol. Risk Assess.: An Int. J. https://doi.org/10.1080/10807039.2019.1611415	1080-7039	2.01 W
23.	Sattar, H., M.A. Haq, H.R. Ahmad and M.J. Jaskani	2019	Immobilization of chromium by poultry manure and gypsum in soil and reducing its uptake by spinach grown with textile effluent irrigation	Pak. J. Agri. Sci. 56:781-790	0552-9034	0.62Y
24.	Mehmood, K., H.R. Ahmad ,	2019	Heavy metals in urban and peri-	Hum. Ecol. Risk Assess.: An Int. J. https://doi.org/10.1080/10807039.2019.1601004	1080-7039	2.01W

	R. Abbas Saifullah and G. Murtaza		urban soils of a heavily-populated and industrialized city: Assessment of ecological risks and human health Repercussions			
25.	Mehmood, K., H.R. Ahmad and Saifullah	2019	Quantitative assessment of human health risk posed with chromium in waste, ground, and surface water in an industrial hub of Pakistan	Arab. J. Geosci. 12:2-11	1866-7538	1.14
26.	Sardar,F.M., H.R. Ahmad , Z.Rehman, M. Ozturk and V. Altay	2019	Absorption of foliar-applied lead (Pb) in rice (<i>Oryza sativa</i> L.): A hydroponic experiment.	Fresenius Environ. Bullet. 27:6634-6639	1018-4619	0.69 X
27.	Ijaz, M., H.R. Ahmad , S. Bibi, M.A. Ayub and S. Khalid.	2020	Soil salinity detection and monitoring using Landsat data: a case study from Kot Addu, Pakistan.	Arabian J. Geosci. 13:510. DOI: 10.1007/s12517-020-05572-8	1866-7538	1.53
28.	M. Sabir, M.Z. Rehman, T. Aziz, H.R. Ahmad , Saifullah, and E.A. Waraich	2020	Comparative residual effect of activated carbon and other organic amendments on immobilization and phyto-availability nickel and other metals to Egyptian Cover(<i>Trifolium alexandrinum</i>) in contaminated soil	Int. J. Phyto. Remed. DOI: 10.1080/15226514.2019.1707165	1549-7879	2.24W
29.	Farooqi, Z.R., M. Sabir, J. Latif, Z. Aslam, H. R.Ahmad , I. Ahmad, M. Imran and P. Ilic	2020	Assessment of noise pollution and its effects on human health in industrial hub of Pakistan.	Environ. Sci. Pollut. Res. 27: 2819-2828.	1614-7499	3.21W
30.	Sardar, M. F., B. Abbasi, C. Zhu, M.Z. Rehman, A.A. Qadir, H.R. Ahmad , S. Siddque, A.	2021	A Review of Veterinary Antibiotic Pollution in the Agro-Environment of	Intl J Agric Biol 25:795–804. DOI: 10.17957/IJAB/15.1731.	814–9596	0.82Y

	Asghar, Z. Wang, X. Liu and H. Li		Pakistan: Alarm Bells Are Ringing			
31.	Ahsan., W.A., H.R. Ahmad , Z.R. Farooqi, M.Sabir, M.A. Ayub, M.Rizwan and P. Ilic	2021	Surface water quality assessment of Skardu springs using Water Quality Index	Environ. Sci. Pollut Res. 28:20537–20548. https://doi.org/10.1007/s11356-020-11818-5 .	1614-7499	4.22W
32.	Sabir, M., Z. Naseem, W. Ahmad, M. Usman, F. Nadeem, Saifullah and H. R. Ahmad .	2021	Alleviation of adverse effects of nickel on growth and concentration of copper and manganese in wheat through foliar application of ascorbic acid	Int J.Phyto. Remed. https://doi.org/10.1080/15226514.2021.1962801 .	1549-7879	3.20W
33.	Fatima, S., M. Sabir, T. Aziz, H.R. Ahmad , M. Yaseen, M.Z. Rehman, and K.R. Hakeem.	2021	Comparison of Fine and Coarse Rice Varieties for Nickel Accumulation and Growth Response at Different Levels of Nickel	Clean Soil Air Water. 49: 1-10. doi.org/10.1002/clen.202000336 .	1863-0669	1.60Y
34.	Murtaza, G., M.Z. Rehman, M.Z., M. Qadir, M.T. Shehzad, N. Zeeshan , H. R. Ahmad , Z.R. Farooqi and R. Naidu.	2021	High residual sodium carbonate water in the Indian subcontinent: concerns, challenges and remediation.	Int. J. Environ. Sci. Technol. 18, 3257-3272. doi.org/10.1007/s13762-020-03066-4 .	1735-1472	3.0W
35.	Mehmood, K., Y. Bao, R. Abbas, Saifullah, G.P. Petropoulos, H.R. Ahmad , M.M. Abrar, A. Mustafa, A. Abdalla, K. Lasaridi and S. Fahad	2021	Pollution characteristics and human health risk assessments of toxic metals and particle pollutants via soil and air using geo-information in urbanized city of Pakistan	Environ. Sci. Pollut Res. doi: 10.1007/s11356-021-14436-x.	1614-7499	4.22W
36.	Altaf, A.R., H. Teng , M. Saleem , H.R.Ahmad , M. Adil and K. Shahzad	2021	Associative interplay of Pseudomonas gessardii BLP141 and press mud ameliorated growth, physiology, yield,	Bioremed. J. 2: 178-188. DOI.org/10.1080/10889868.2020.1853028 .	1547-6529	1.91X

			and Pb-toxicity in sunflower			
37.	M.A. Saeed, G. Murtaza, S. Ali, H. Aziz, M.F. Albeshr, S. Mahboob, I. Mazoor, Z.R. Farooqi, M. Sabir, H.R. Ahmad , A.A. Qadir, and M.S. Rehman	2022	Assessment of Drinking Water Quality and Associated Socio-Economic Impacts in Arid Mountainous Regions	Sustainability https://doi.org/10.3390/su141912567	2071-1050	3.25W
38.	Riaz, R.M. Y, G. Murtaza, Z R. Farooqi, S. Ali, H. Aziz, S. Mahboob, K. A. Ghanim, G. Owens, H. R. Ahmad and U. Riaz	2022	Assessment of Arsenic Contamination in Groundwater and Associated Human Health Risk	Sustainability https://doi.org/10.3390/su141912460	2071-1050	3.25W
39.	Sabir, M, S. Usman, Saifullah, S. Bibi, H.R. Ahmad , S. Nazar, and Z. R. Farooqi	2022	Nitrogen Forms Modify Growth Response and Accumulation of Potentially Toxic Elements by Wheat Genotypes in Nickel-Contaminated Soil	Clay. Soil Air Water DOI: 10.1002/clen.202100231	1863-0650	1.6Y
40.	Ahmad, I., H.R. Ahmad , Z.R. Farooqi, M., Sabir, M. Rizwan and M.A. Maqsood	2022	Apportionment of heavy metals in a soil–water–plant system via brick kiln emissions in heavily industrialized city of Pakistan	Environ. Sci. Pollut Res. https://doi.org/10.1007/s11356-022-19753-3	0944-1344	4.22W
41.	M. A. Ayuba, H. R. Ahmad, M. Zia-ur-Rehman, and E. A. Waraich	2023	Comparative Investigation of Cd Adsorption on Alkaline Sandy Clay Loam Soil Treated with Cerium Oxide Nanoparticles, Organic and Inorganic Amendments	Eurasian Soil Sci. 56:S300-S316	1064-2293	1.40

42.	Ahmad, N., M Usman · H. R. Ahmad, M. Sabir · Zia Ur Rahman Farooqi · M. T. Shehzad	2023	Environmental implications of phosphate-based fertilizer industrial waste and its management practices	Environ. Monit. Assess doi.org/10.1007/s10661-023-11958-4	0167-6369	3.10 W
43.	Ahmad, N., F. Younas , H.R. Ahmad, M. Sarfraz , M.A. Ayub, M. A. Maqsood, F. Rasul , M. F. Sardar, T. Mehmood , S. Jamaan. Ajarem , Saleh, Maoda , Xiang Li and Zhaojie Cui	2023	Soybean (Glycine max) Cropland Suitability Analysis in Subtropical Desert Climate through GIS-Based Multicriteria Analysis and Sentinel-2 Multispectral Imaging	Land doi.org/10.3390/land12112034	2073-445X	3.20W
44.	Muhammad Hassan Bashir · Hamaad Raza Ahmad Ghulam Murtaza Muhammad Farrakh Nawaz	2023	Spatial distribution of heavy metals, source identification, risk assessment and particulate matter in the M4 motorway	Environ Monit Ass. 195:1541	01676369	3.10W
45.	Ayub, M.A, M. Z. Rehman, H.R. Ahmad , J. P. Fox, P. Clubb , A.L. Wright, M.A. Haq, M. Nadeem, C.M. Rico and L. Ross	2023	Influence of ionic cerium and cerium oxide nanoparticles on <i>Zea mays</i> seedlings grown with and without cadmium	Environ. Pollut. 322:121137. https://doi.org/10.1016/j.envpol.2023.121137	269-7491	8.07
46.	Farooqi, Z.R., M. Sabir, H.R. Ahmad , M. Shahbaz and J. Smith	2023	Reclaimed Salt-Affected Soils Can Effectively Contribute to carbon Sequestration and Food Grain Production: Evidence from Pakistan	Appl. Sci. 2023, 13, 1436. https://doi.org/10.3390/app13031436	1454-5101	2.83Y
47.	Muhammad Ayub, M.A., M.Z. Rehman,	2023	Divergent effects of cerium oxide nanoparticles alone and in combination	Front. Plant Sci. 14: 1151786 DOI 10.3389/fpls.2023.1151786	1664-462X	6.63W

	H.R. Ahmad, C.M. Rico, G.H. Abbas, W. Umar, A.L. Wright, M. Nadeem, J.P. Fox and L. Rossi		with cadmium on nutrient acquisition and the growth of maize (<i>Zea mays</i>)			
48.	Anees Irfan, Hamaad Raza Ahmad, Muhammad Tahir Shehzad, Fatima Siddiq, Ada Ashban, Muhammad Saad Bin Zafar & Muhammad Hassan Bashir	2024	Alleviating Cadmium Toxicity in Eggplant (<i>Solanum melongena</i> L.) and Human Health Risk Analysis: Contrasting Effects of Gypsum, Farm Manure and Poultry Manure	Journal of Soil Science and Plant Nutrition 24:7881–7893 https://doi.org/10.1007/s42729-024-02084-2	0718- 9508	3.40
49.	Muhammad Hassan Bashir, Atiq ur Rehman, Hamaad Raza Ahmad, Amor Hedfi, Manel Ben Ali, Fehmi Boufahja, Khaled Elmnasri, Ezzeddine Mahmoudi, Muhammad Tahir Shehzad	2024	Dust trace metals implications on school's indoor air quality linked to human health risk at Khurianwala (Pakistan)	Atmospheric Environment 339 (2024) 120889	1352- 2310	4.2
50.	Muhammad Naveed, Iqra Abid, Farhat Mustafa, Hamaad Raza Ahmad, Saud Alamri, Manzer H. Siddiqui, Alanoud T. Alfagham and Adnan Mustafa	2024	Microbiologically modified bioorganic fertilizer and metal-tolerant <i>Bacillus</i> sp. MN54 regulate the nutrient homeostasis and boost phytoextraction efficiency of mustard (<i>Brassica juncea</i> L.) in nickel-contaminated soil	Chem. Biol. Technol. Agric. 11:168. https://doi.org/10.1186/s40538-024-00689-4	2196- 1574	5.20
51.	Bashir, M.H., M.F, Sardar, H. R. Ahmad,	2024	Impact of Foliar Applied Metals Contaminated	Polish. J. Environ. Stud. Vol. XX, No. X (XXXX), 1-15	1230- 1485	1.4

	P. Zhu, X. Yu, W.A. AlOnazi, W.Guo		Dust on Crop Growth and Soil Health			
52.	Bashir, M.H. H.R. Ahmad, J. Han, M.A. Ashraf, A. Zulfiqar, A. Shoukat, G. Yasin, M. Zhou, H. S. Almoallim, M.J. Ansari & Shafeeq Ur Rahman	2024	Dust-induced metal toxicity alleviated by the combined effect of organic and inorganic amendments on soil and plant	Archives of Agronomy and Soil Science. 1, 1–19 https://doi.org/10.1080/03650340.2024.2398047	0365-0340	2.30Q1
53.	Ahmed, W., M.N. Ashraf · M.Sanaullah · M.A. Maqsood, M.A. Waqas, S. ur Rahman, · S. Hussain, · H. R. Ahmad, A. Mustafa and · X. Minggang	2024	Soil Organic Carbon and Nitrogen Mineralization Potential of Manures Regulated by Soil Microbial Activities in Contrasting Soil Textures	J. Soil Sci. Plant Nutr. https://doi.org/10.1007/s42729-024-01730-z	0718-9516	3.40W
54.	Zeeshan, N., G.M. Murtaza · H. R. Ahmad · A.N. Awan, M. Shahbaz, and P.F. Smith	2024	Particulate and gaseous air pollutants exceed WHO guideline values and have the potential to damage human health in Faisalabad, Metropolitan, Pakistan	Environ Monit Assess (2024) 196:659 https://doi.org/10.1007/s10661-024-12763-3	0167-6369	3.10W
55.	K. Mehmood M. S. Ahmed H. R. Ahmad M. Sabir, M.A. Ayub, N. Ahmad, R. K. Manavalan, T. K. Faraj and X Qiu ^{1,2}	2025	Modeling source identification of dust and paint metals effecting workshops indoor air quality: associated contamination and cancer risk	Modeling Earth Systems and Environment 11:178 https://doi.org/10.1007/s40808-025-02372-5	2363-6203	3.0W
56.	Bashir, M.H., A. Asif, H.R. Ahmad, A. Abbas, M.T. Shehzad	2025	Spatio-temporal assessment of heavy metal contamination in groundwater along Madhuana drain, Faisalabad: source	Environ Geochem Health 47, 251 https://doi.org/10.1007/s10653-025-02563-0	0269-4042	3.8W

			apportionment and health risk analysis			
57.	K Mehmood, MS Ahmed, HR Ahmad, M Sabir, MA Ayub, N Ahmad, RK Manavalan, TK Faraj, X Qiu	2025	Quantifying toxic metals contamination in air conditioning filters: implications for urban health and air quality management	International Journal of Environmental Science and Technology, 22(10), pp.9391-9406.	9391-9406.	3.00 Q1

Books

S.No	Author(s)	Year	Title	ISBN No.	Name of Publisher
1	Ghafoor, A., G. Murtaza, M .Z. Rehman, M .Sabir, H.R. Ahmad and Saifullah.	2013	Fundamentals of soil chemistry	969-547-019-0	Allied Book Centre, Urdu Bazar, Lahore, Pakistan
2	Ghafoor, A., G. Murtaza, Saifullah. M .Z. Rehman, M .Sabir and H.R. Ahmad	2012	Environmental Pollution, Types, Sources and Management	969-547-001-7	Allied Book Centre, Urdu Bazar, Lahore, Pakistan

Proceedings

S.No	Author(s)	Year	Title	Name of Publisher
1	Naseem, M., M. A. Haq, M.Z. Rehman, H.R. Ahmad and J. Akhtar	2015	Maize growth during remediation of nickel contaminated salt-affected soil with organic amendments	Proc. Intl. Conf. Soil Sust. Food Security. Nov.15-17, 2015. UAF. Pakistan.
2	Sattar, H., M.A. Haq, H.R. Ahmad, M. Naseem M.Z. Rehman and J. Akhtar	2015	Effect of inorganic amendments on maize growth and nickel uptake from naturally contaminated soils	Proc. Intl. Conf. Soil Sust. Food Security. Nov.15-17, 2015. UAF. Pakistan.
3	Ishaq, M., H.R. Ahmad, M.Z. Rehman and M.A. Maqsood	2015	Effect of inorganic amendments on physiology and growth of wheat grown on soil receive nickel contaminated water for irrigation	Proc. Intl. Conf. Soil Sust. Food Security. Nov.15-17, 2015. UAF. Pakistan.
4	Rasheed, N., M.A. Maqsood, T. Aziz, S. Hussain, H.R. Ahmad	2015	Assessment of Zinc partitioning in maize genotype by varying methods of Zinc application in hydroponics	Proc. Intl. Conf. Soil Sust. Food Security. Nov.15-17, 2015. UAF. Pakistan.

5	Ashraf, M.N., T. Aziz, M.A. Maqsood, H.M. Bilal, M. Zia, M. Sabir, H.R. Ahmad	2015	Natural nitrification inhibitor: A promising technology to enhance nitrogen efficiency	Proc. Intl. Conf. Soil Sust. Food Security. Nov.15-17, 2015. UAF. Pakistan.
6	Hussain, S., M.A. Maqsood, Z. Rengel, T. Aziz and H.R. Ahmad.	2013	Zinc concentration in wheat grains and associated soil of southern Punjab requires zinc application for bio fertilizer	17 Intl. Plant nutrition colloquium. Istanbul, Turkey. Aug. 19-22, 2013.
7	Sabir, M., S. Raza, M.Z. Rehman, H.R. Ahmad, K.R. Hakeem and G. Murtaza	2013	Site specific K recommendations for rice productivity and to reduce Excessive use of Fertilizers	Proc. 13 Intl. Conf. of Environ. Sci and Tech. Athens, Greece. Sept. 5-7, 2013.
8	Sabir, M., A. Rashid, A. Ghafoor, M. Z. Rehaman, T. Aziz and H.R. Ahmad.	2011	Nickel supplementation influenced growth and metal ionic composition of maize	Intl. Poster. J. Sci. Technol. 15: 56-58.
9	Ahmad, H.R., M. Sarfraz, P. Weckenbrock and M.I. Dogar.	2009	GIS Used to Monitor Groundwater Quality in Pakistan.	ARC Watch July 2009 (ESRI, USA. publication).
10	Javaid, M.A., H.R. Ahmad and T. Yamin.	2007	Geochemical impact of precipitation/dissolution phenomena on ground water quality: Concept and theory in ion transport modeling.	Proc. 5th Pak. Geol. Cong. Contribution to geology of Pak. April, 2004. Islamabad, Pakistan
11	Javaid, M.A., M. Feroze, H.R. Ahmad, M. Asif and A. Hannan	2007	Spatial information analysis of groundwater monitoring in Chaj Doab: A case study.	Proc. 5th Pak. Geol. Cong. Contribution to geology of Pak. April, 2004. Islamabad, Pak.
12	Ghafoor, A., M.R. Chaudhary, M. Qadir, G. Murtaza and H.R. Ahmad.	1997	Use of drainage water for crops on normal and salt-affected soils without disturbing biosphere equilibrium.	IWA SRI Pub. No. 176.
13	Ahmad, H. R., M. Aslam, A. Ghafoor and Ch. Karamat.	1997	Interactive effect of salinity and hypoxia on the distribution of nutrients in wheat.	Proc.Symp.Plant Nutri, Manag. Sust. Agri. Growth. Dec. 8-

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National Press Article

S.No	Author(s)	Year	Title	Name of Publisher
1	Yassal, M, H.R. Ahmad , M.A. Maqsood. 2022.	2022	Identification of soil salinity using remote sensing	July – September, 2022, Zari Digest, P.59
2	Ayub, M.A., H.R. Ahmad , H. Khalid and M.Z. Rehman	2019	Assessment of environmental quality using Remote sensing and GIS Techniques	Technology Times
3	H. Khalid, Z. Rehman, M. Iqbal and H.R. Ahmad	2016	Particulate matter- An alarming source of air pollution	Technology Times 7: 18
4	H.R. Ahmad , Nawab Ali, M. Sabir, G. Murtaza, Z. Rehman and N.K. Niazi	2013	Impact of polluted water on soils and crops	Zari Digest. Univ. Agri., Faisalabad January, 2013
5	H.R. Ahmad , A. Ghafoor and M. Sarfraz	2009	Choice of fertilizers for rice growing in salt-affected soils	Zari Digest. Univ. Agri., Faisalabad Festival number
6	H.R. Ahmad , M. Sarfraz, P. Weckenbrock, M.I. Dogar	2009	GIS Used to Monitor Groundwater Quality in Pakistan	ARCwatch ESRI, USA
7	H.R. Ahmad , A. Ghafoor and M.A. Aziz.	2007	Hazards of sewage irrigation	Daily Dawn. Economic and Business review. pp. III. June 4-10
8	Aziz, M.A., A. Ghafoor and H.R. Ahmad .	2006	Preparing agriculturist for precision farming.	Daily Dawn, Economic and Business Review. April 10-16. P.III
9	Ghafoor, A., M. Qadir, G. Murtaza and H. R. Ahmad.	1996	Use of drainage water for crops on productive soil.	Dept. Soil Sci., Univ. Agri., Faisalabad

10	Ghafoor, A., M. Qadir, G. Murtaza and H.R. Ahmad .	1996	Economic reclamation of salt-affected soils with drainage water.	Dept. Soil Sci., Univ. Agri., Faisalabad
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List of Book Chapters bearing ISBN Number

SNo	Author	Year	Title	ISBN	Name of Publisher
1.	Aziz, T., M. Sabir, M.Farooq, A.A. Maqsood, H.R. Ahmad and E.A. Warraich	2014	Phosphorous deficiency in plants: Responses, Adaptive Mechanisms and Signaling	978-81-322-1542-4	K.R. Hakeem et al., (Eds.). Plant signaling: Understanding the molecular crosstalk. Springer, Switzerland.
2.	Aziz, T., M. Aamer Maqsood, Shamsa Kanwal, Shahid Hussain, H. R. Ahmad , M. Sabir.	2015	Fertilizers and Environment: Issues and Challenges	978-3-319-23161-7	K.R. Hakeem(Ed.) p. 575-598. Crop Production and Global Environmental Issues. Springer, Malaysia
3.	Ahmad, H.R. , T. Aziz, M. Sabir, M.Z. Rehman and Saifullah	2015	Spatial mapping of metal contaminated soils	978-0-12-799937-1.	K.R. Hakeem (Ed.). Soil Remediation and Plants; Prospects and challenges. Academic Press., NY., USA.
4.	Sabir, M., E.A. Waraich, K.R. Hakeem, M. Ozturk and H.R. Ahmad	2015	Phyto-remediation: Mechanisms and adaptations	978-0-12-799937-1.	K.R. Hakeem (Ed.). Soil Remediation and Plants; Prospects and challenges. Academic Press., NY., USA.
5.	Saifullah. M. Shajid, M.Z. Rehman., M. Sabir and H.R. Ahmad .	2015	Phyto-remediation of Pb contaminated soils using synthetic chelates	978-0-12-799937-1.	K.R. Hakeem (Ed.). Soil Remediation and Plants; Prospects and challenges. Academic Press., NY., USA.
6.	Rehman, M.Z., M. Sabir, M. Rizwan, Saifullah, H.R. Ahmad .	2015	Remediating cadmium contaminated soils by growing grain crops using inorganic amendments	978-0-12-799937-1.	K.R. Hakeem (Ed.). Soil Remediation and Plants; Prospects and challenges. Academic Press., NY., USA.
7.	Ahmad, H.R. , T. Aziz, M.Z. Rehman, M. Sabir and H. Khalid.	2016	Sources and composition of waste water: Threats to plant and soil health.	978-3-319-34449-2.	K.R. Hakeem et al. (eds.), Soil Science: Agricultural and Environmental Prospective, Springer, Switzerland.
8.	Khan, W.D. T. Aziz, M.A. Maqsood, M. Sabir, H.R. Ahmad , P.M.A. Ramzani and M. Naseem.	2016	Silicon: A beneficial nutrient under salt stress, its uptake mechanism and mode of action.	978-3-319-34449-2.	K.R. Hakeem et al. (eds.), Soil Science: Agricultural and Environmental Prospective, Springer, Switzerland. P. 287-301. DOI 10.1007/978-3-319-34451-5-12

9.	Ahmad, H.R. , M.Z. Rehman, M.I. Sohail, M.A.Haq, H. Khalid, M.A. Ayub , G. Ishaq	2017	Effects of rare earth oxide nanoparticles on plants.	978-0-12-811487-2	Parvaiz Ahmad et al. (eds.), Nanomaterials in Plants, Algae and Microorganisms, 1 st Ed. Elsevier, London, UK. p. 239-275.
10.	S. Kanwal, H.R. Ahmad and I. Bibi	2017	Concepts in Soil Genesis and Morphology	978-969-8237-93-6	M. Sabir et al. (eds.), Soil Science: Concepts and Application. University of Agriculture, Faisalabad
11.	I.Bibi, H.R. Ahmad , R. Fitzpatrick, A.K. Jarwar, M Saddiq, N.Ahmad.	2017	Soil Classification	978-969-8237-93-6	M. Sabir et al. (eds.), Soil Science: Concepts and Application. University of Agriculture, Faisalabad
12.	Ahmad, H.R. , M. Sabir, M.Z. Rehman, T. Aziz, M.A. Maqsood, M.A. Ayub, and A. Shahzad.	2020	Wastewater irrigation- sourced plant nutrition: Concerns and Prospects	978-3-030-49855-9	Aftab T., Hakeem K.R. (eds) Plant Micronutrients. Springer, Cham. https://doi.org/10.1007/978-3-030-49856-6-18
13.	W. Umer, M.A. Ayub, M.Z. Rehman, H.R. Ahmad , Z.R. Farooqi, A. Shahzad, M.Z U.Rehman, A. Mustafa and M. Nadeem.	2020	Nitrogen and Phosphorous: Sources, Fate, and utilization in Agroecosystem	978-981-15-6953-1	In Resources Use Efficiency in Agriculture. Springer, Singapore, pp. 213-257.
14.	Ayub, M.A., H.R. Ahmad , M. Ali, M. Ramzan, S.Ali, M.Z.Rehman, and A.A. Waris	2020	Salinity and its tolerance strategies in plants	978-0-12-818204-8	Plant life under Changing Environ: Responses and Management. D.K. Tripathi et al., (eds.) Academic Press, USA
15.	Ayub, M.A, M.Z. Rehman, W. Umar, M.Adnan, Z.R. Farooqi, M. Naveed, M.Z. Aslam and H.R. Ahmad	2021	Physiological Mechanisms and Adaptation Strategies of Plants under Heavy Metal Micronutrient Deficiency/Toxicity conditions	9780323-909440	Molecular Insights into Plant Adaptation: Frontiers in Plant–Soil Interaction: 1st Edition. Aftab T., Hakeem K.R. (eds).1 st Ed. Academic Press. DOI: 10.1016/B978-0-323-90943-3.00016-X
16.	Ayub, M.A, M.Z. Rehman, W. Umar, A. Jamil, M. Z. Aslam, H.R. Ahmad , Z. Ahmad and A. Siddique	2021	Uptake and Transformation of Heavy Metals/Metalloids in Plants	9780367725075	Heavy Metal Toxicity in Plants Physiological and Molecular Adaptations. Aftab T., Hakeem K.R. (eds).1st Ed. CRC Press, UK.

17.	Muhammad Ashar Ayub, Asad Jamil, M. Shabbn, W. Umar, M. Jafir, Hamaad Raza Ahmad , Rehman	2022	Nanomaterials for integrated crop disease management	978-981-19-3120-8	Kamel et al. (eds) Cereal Diseases: Nano biotechnological approaches for diagnosis and management. Springer Nature Switzerland
18.	M.A. Ayub, M. Adnan, W. Umar, Z.R. Farooqi, M. Awais, H.R Ahmad , Bisma Imran Ch and Ayesha Siddique	2022	Required Quality of Sewage Sludge as an Agricultural Soil Amendment	978-3-030-85225-2.	Rajput et al. (eds) Sustainable Management and Utilization of Sewage Sludge. DOI: 10.1007/978-3-030-85226-9_12. Springer Nature Switzerland
19.	M.A. Ayub, M. Z. Rehman, W. Umar, Z.R. Farooqi, M. Sarfraz, H. R. Ahmad , Z. Ahmad, M.Z Aslam	2022	Role of glycine betaine in stress management in plants	978-0-323-91005-7	Tariq Aftab and M. Naeem (eds) Emerging Plant Growth Regulators in Agriculture. Academic Press. https://doi.org/10.1016/B978-0-323-91005-7.00005-9
20.	Hamaad Raza Ahmad , M.Z, Farooqi, M. Sabir F. Sardar	2022	Brick Kilns: Types, Emissions, Environmental Impacts, and their Remedial Measures	978-3-030-59928-7	Ozturk et al. (eds.), Biodiversity, Conservation and Sustainability in Asia, Springer Nature Switzerland AG 2022, https://doi.org/10.1007/978-3-030-73943-0_52..
21.	S, Sultana, M. Sabir, Saifullah, Hamaad Raza Ahmad , and Ghulam Murtaza	2023	Contamination of Sewage Water with Active Pharmaceutical Ingredients: An Emerging Threat to Food Products and Human Health	2524-6410.	Tariq Aftab (ed) Emerging contaminants and Plants Growth Regulators in Agriculture. Springer, Switzerland AG 2023 p.193
22.	M. Ashar Ayub, M. Z.Rehman, M. Zohaib Aslam, W. Umar, M. Adnan and H.R. Ahmad	2023	Effect of heavy metal polluted soil on physiology and biochemistry of plants	978100-3304210s	Tariq Aftab and K.R. Hakeem (eds). Environmental Pollution Impact on Plants: Survival Strategies under challenging conditions. CRC. Press. https://doi.org/10.1201/9781003304210
23.	H.R. Ahmad, W. Ahmad, M. Konyushkova, G. Murtaza, M.Sabir, S. Sultana	2024	Human-induced soil salinization and sodification. FAO: Global Status of Salt-Affected Soils	https://openknowledge.fao.org/items/3fba222a-e820-4d1e-a736-12cbef53d699	FAO: Global Status of Salt-Affected Soils. Main Report
24.	N. Ahmad, H.R. Ahmad , Z Sajid, M. Tahir, H. Salma, S. Akhtar, TR. Alvi, U. Zulfiqar, W.	2024	Role of Microbial Enzymes in waste water processing and Treatment. Enzyme Biotechnology for Environmental Sustainability:	9780443220715	Enzyme biotechnology for Environmental sustainability Praveen Dahiya, Joginder Singh Panwar, Ajay Kuma(eds) P. 119-160. Elsevier, Amsterdam, Netherlands

	Umar and M.A. Ayub.		Progress in Biochemistry and Biotechnology.		
25.	Ahmad, H.R. , K. Mahmood, Saifullah, S. Bibi, M.H. Bashir and A. Siddique	2024	Revealing air quality dynamics: Leveraging remote sensing and GIS for active monitoring and Risk Assessment	978-0-443-13605-4	G.P. Petropoulos and Chalkias (eds) 2024. Geographical Information Science. Elsevier United Kingdom. ISBN: 978-0-443-13605-4
26.	N. Ahmad, H.R. Ahmad , A. Ahamd, Hassan, H. Siddique, G. Liaquat, G. Murtaza, T. Jameel, M. Imran, M. Fatima, M. Nadeem, M.A. Ayub	2025	16 Antiviral Bioactive Compounds of Terminalia chebula Ritz (Myrobalan) and their antiviral mechanisms	9781032560526 DOI: 10.1201/9781003433583-16	Antiviral Secret Medicinal Plants. Deepu Pandita and Anu Pandita (eds) CRC Press

Research Projects completed

S.No	Project Title	Funding Agency	Amount	Duration	As PI/ Co-PI	Present Status
1	Level and risk assessment of heavy metals in dust from a textile based city using advanced	HEC, Islamabad	Rs. 2,599,534	Three	PI	Completed
2	Contaminates in city effluents, soils, water, plants and air, and mapping pollution hit areas of Faisalabad metropolitan using GIS technique	HEC, Islamabad	Rs. 6288742	Three	PI/ Co-PI	completed

Projects completed as Co-PI

S.No	Project Title	Funding Agency	Amount	Duration	As PI/ Co-PI	Present Status
1	Use of drainage water for crops on normal and salt-affected soils without disturbing biosphere equilibrium	IWASRI		Three Years	Scientific Officer	Completed

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Post held	Where employed	Scale of pay	Last Pay	Duration		Total Length			Cause of leaving	Brief description of job (Teaching/Research/Administrative)
				From	To	Y	M	D		
Asso.Prof	Inst. Soil and Environ. Sci. Univ. Agri. Faisalabad	BPS-19	Rs.244335	06/30/2022	To-date	3	3	22		
Assist. Prof.	Inst. Soil and Environ. Sci. Univ. Agri. Faisalabad	BPS-19	Rs. 143347	19/06/2005	29/06/2022	17	00	10	Selected as Asso. Prof.	Teaching & Research
Reclamation Supervisor	Directorate of land reclamation I & P Dept.	BPS-17	Rs. 14895	12/05/1997	18/06/2005	08	01	07	Appointed as Assistant Professor	Research and GIS mapping
Scientific officer	Dept. Soil Science Univ. Agri. Faisalabad	BPS-17	Rs. 2500	May 1995	June 1996	01	01	29	IWASRI Project completed	Research

