

CURRICULUM VITAE



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DISTINCTION:

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

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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 _{dw} from SAR _{iw} 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.	1998	Cycling Tile Drain water for crops production and	J. Arid Land Studies vol. 7S. pp. 179-182.		

	Murtaza and H. R. Ahmad.		reclamation of Aquatic Haplagid soil.			
5	Ahmad, N., M.A. Javed, M.T. Yamin, C. Karamat and H.R. Ahmad .	2002	Hydro geochemical ion transport modeling for rating groundwater quality of a soil-water system.	Pak. J. Environ. 2:67-75.		
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	Ayub, M.A, M. Z. Rehman, H.R. Ahmad , J. P. Fox, P. Clubb , A.L. Wright, M.A.	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

	Haq, M. Nadeem, C.M. Rico and L. Ross					
2	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	2076- 3417	2.83
3	Muhammad Ayub, M.A., M.Z. Rehman, H.R. Ahmad , C.M. Rico, G.H. Abbas, W. Umar, A.L. Wright, M. Nadeem, J.P. Fox and L. Rossi	2023	Divergent effects of cerium oxide nanoparticles alone and in combination with cadmium on nutrient acquisition and the growth of maize (<i>Zea mays</i>)	Front. Plant Sci. 14: 1151786 DOI 10.3389/fpls.2023.1151786		6.63
4	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	3.25
5	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	3.25
6	Sabir, M, S. Usman, Saifullah, S.	2022	Nitrogen Forms Modify Growth Response and Accumulation of Potentially Toxic Elements by Wheat	Claen. Soil Air Water DOI: 10.1002/clen.202100231		1.6

	Bibi, H.R. Ahmad , S. Nazar, and Z. R. Farooqi		Genotypes in Nickel-Contaminated Soil			
7	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 .	1614-7499	4.22
8	Sardar, M. F., C. Zhu, B. Geng, H.R. Ahmad , T. Song and H. Li.	2021	The fate of antibiotic resistance genes in cow manure composting: shaped by temperature-controlled composting stages	Bioresour Tech. 320 (2021) 124403. https://doi.org/10.1016/j.biortech.2020.124403	0960-8524	9.64
9	Sardar, M. F., B. Abbasi, C. Zhu, M.Z. Rehman, A.A. Qadir, H.R. Ahmad , S. Siddique, A. Asghar, Z. Wang, X. Liu and H. Li	2021	A Review of Veterinary Antibiotic Pollution in the Agro-Environment of Pakistan: Alarm Bells Are Ringing	Intl J Agric Biol 25:795–804. DOI: 10.17957/IJAB/15.1731.	814–9596	0.82
10	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	4.22
11	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	3.20
12	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	1.60

13	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 .	1735-2630	3.0
14	Mehmood, K., Y. Bao, R. Abbas ⁴ , 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	4.22
15	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, and Pb-toxicity in sunflower	Bioremed. J. 2: 178-188. DOI.org/10.1080/10889868.2020.1853028.	1547-6529	1.91
16	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		1.53
17	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	2.24
18	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	3.21

19	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	1614-7499	2.91
20	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	1549-7860	2.01
21	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	2076-0906	0.62
22	Mehmood, K., H.R. Ahmad , R. Abbas Saifullah and G. Murtaza	2019	Heavy metals in urban and peri-urban soils of a heavily-populated and industrialized city: Assessment of ecological risks and human health Repercussions	Hum. Ecol. Risk Assess.: An Int. J. https://doi.org/10.1080/10807039.2019.1601004	1549-7860	2.01
23	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
24	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
25	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.	1648-6897	2.23
26	Ahmad, M, M.H. ElSaeid, M.A. Akram H.R. Ahmad , H .	2016	Silicon fertilization a to boost up drought tolerance in wheat	J. Plant Nutr. 39: 1283-1291	0190-4167	0.75

	Haroon and A. Hussain.		(<i>Triticum aestivum</i> L.) crop for better yield			
27	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	4.53
28	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	0.54
29	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
30	Corwin, L.D. and Hamaad Raza Ahmad	2015	Spatio-temporal impacts of dairy lagoon water reuse on soil: heavy metals and salinity.	J. Environ. Monit. 17: 1731-1748.	2050-7887	2.11
31	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
32	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

33	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	1.12
34	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	0.51
35	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
36	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 (<i>Zea mays</i> L.) grown on Contaminated Soil	Int. J. Agri. Biol. 15-3: 559 – 564.	1560-8530	0.94
37	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
38	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

39	H. R. Ahmad, M . Abbas Aziz, A. Ghafoor, M .Z. Rehman, M . Sabir ,Saifullah.	2011	Wheat assimilation of nickel and zinc added in irrigation water as affected by organic matter	J. Plant Nutr. 34:1–7.	0190-4167.	0.64
40	Ahmad, H.R. A, A. Ghafoor, D .L. Corwin, M .A. Aziz and Saifullah	2011	Organic and inorganic amendments 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	0.51
41	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
42	Rehman, M .Z., A.Ghafoor, M. Sabir, Saifullah, A. Naeem and H.R. Ahmad.	2008	Extractants for assessment of phyto available cadmium to rice growing in Cd contaminated soils	Pak. J. Agri. Sci. 45:11-17.	0552-9034	1.24
43	Aziz, M.A., A. Ghafoor, Saifullah, 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
44	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.		1.24

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. Rehman, 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. 8-10, 1997. NFDC., Islamabad., Pakistan.

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

Book Chapters

S.No	Author(s)	Year	Title	ISBN No.	Name of Publisher
1	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
2	M. Ashar Ayub, M. Zia ur Rehman, M. Zohaib Aslam, Wajid Umar, M. Adnan and H.R. Ahmad	2023	Effect of heavy metal polluted soil on physiology and biochemistry of plants	9781003304210s	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
3	Muhammad Ashar Ayub,	2022	Nanomaterials for integrated crop	978-981-19-3120-8	Kamel et al. (eds) Cereal Diseases: Nano biotechnological approaches for

	Asad Jamil, M. Shabbn, Wajid Umar, M. Jafir, Hamaad Raza Ahmad and M. Zia Ur Rahman		disease management		diagnosis and management. Springer Nature Switzerland
4	M.A. Ayub, M. Adnan, W. Umar, Zia Ur Rahman 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
5	M.A. Ayub, M. Zia ur Rehman, W. Umar, Zia Ur Rahman Farooqi, M. Sarfraz, Hamaad Raza Ahmad , Z. Ahmad, and 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
6	Hamaad Raza Ahmad , M.Z, Farooqi, M. Sabir and Fahad 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 ..
7	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
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9	Ahmad, H.R. , M. Sabir, M.Z.	2020	Wastewater irrigation-sourced	978-3-030-49855-9	Aftab T., Hakeem K.R. (eds) Plant Micronutrients. Springer, Cham.

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10	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.
11	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
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14	Irshad Bibi, H.R. Ahmad , R. Fitzpatrick, A.K. Jarwar, M. Saddiq, and N. Ahmad.	2017	Soil Classification	978-969-8237- 93-6	M. Sabir et al. (eds.), Soil Science: Concepts and Application. University of Agriculture, Faisalabad
15	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.
16	Khan, W.D. T. Aziz, M.A. Maqsood, M.	2016	Silicon: A beneficial nutrient under salt stress, its	978-3-319- 34449-2.	P. 287-301. K.R. Hakeem et al. (eds.), Soil Science: Agricultural and Environmental Prospective, Springer,

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17	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
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29	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.
20	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.
21	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.
22	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.

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
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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