CURRICULUM VITAE

Name	Saif Ullah
Father's Name	Muhammad Feroz
Date of Birth	January 02, 1976
Place of Birth	Sialkot, Pakistan
Nationality	Pakistan
Professional Address	Institute of Soil and Environmental Sciences, University of Agriculture, Faisalabad, Pakistan Tel: +92-333 6533381

2. ACADEMIC/PROFESSIONAL PARTICULARS

(a) FIELD OF SPECIALIZATION:

Environmental Chemistry, Soil and Water Chemistry

Major Field of Specialization, Fine Field Specialization

(b) ACADEMIC QUALIFICATIONS

Post Doc Fellowship (Management of heavy metal contaminated soils) 2012-2013

Endeavour Research Fellowship, University of Western Australia, Perth, Australia.

Research Project: "Using wheat straw biochar to minimize Cd uptake in barley grown in Cd contaminated soils".

Post Doc Fellowship (Risk assessment of gypsum drywall in building material) 2010-2010

HEC funded postdoctoral fellowship, University of Florida, Florida, USA.

Research Project: "Risk assessment of gypsum drywall in recycling building material on Florida soils s".

Ph.D. (Soil and Water Chemistry) 2002-2007

Institute of Soil and Environmental Sciences, University of Agriculture, Faisalabad (UAF), Pakistan

Dissertation Title: "Chemically Enhanced Phytoextraction of Lead Contaminated Soils"

M.Sc. (Hons) (Soil Science) 1999-2001

CGPA= 4.00/ 4.00 (Marks 790/900, Percentage 87.77 %), UAF, Pakistan.

Dissertation Title: "Effect of potassium fertilization on yield and nutrient uptake of wheat under field conditions".

B.Sc. (Hons) (Agriculture) 1995-1999

CGPA= 3.83/ 4.00 (**Marks** 3242/4020 Percentage 80.64 %), UAF, Pakistan

Scientific Subject: "Estimation of ionic strength from EC of Punjab ground waters".

F.Sc. (Pre-medical) 1992-1994

(**Marks** 766/1100 Percentage 67.81 %), Govt. Degree College, Daska, Pakistan.

Matric. (Science) 1989

(**Marks** 680/850 Percentage 80.0 %), Govt. High School Budha Goraya, Daska, Pakistan

PROFESSIONAL EXPERIENCE

2022-to-date	Associate Professor. Institute of Soil and Environmental Sciences, University of Agriculture, Faisalabad (March 2022-to-date)
2008-to-2022	Assistant Professor, Institute of Soil and Environmental Sciences, University of Agriculture, Faisalabad (March 2008 to date)
2016-to 2021	Assistant Professor, Department of Environmental Health, College of Public Health, Imam Abdulrahman Bin Faisal University, Dammam, KSA
2005-2008	Lecturer, Institute of Soil and Environmental Sciences, University of Agriculture, Faisalabad (May 2005 to April 2008)
2001-2004	Scientific Officer, Institute of Soil and Environmental Sciences, University of Agriculture, Faisalabad, Pakistan (May 2001 to March 2004)

ACADEMIC AND PROFESSIONAL DISTINCTIONS

2012-13	Endeavour Research Fellowship from Australian Government
2010	Postdoctoral Fellowship Award from Higher Education Commission of Pakistan to pursue studies in USA
2002	Merit Scholarship for Ph.D. studies from Higher Education Commission Islamabad
2001	Silver Medal in M.Sc. (Hons.) Soil Science for the session 1999-2001
2001	First position in M.Sc. (Hons.) Soil Science with a Cumulative Grade Point Average (CGPA) of 4.00/4.00 with 87.77% marks
2001	Letter of Appreciation, Chairman Department of Soil Science, Univ. Agric., Faisalabad on Winning First position in M.Sc. Hons.
2001	Faculty Color by Dean, Faculty of Agriculture, University of Agriculture, Faisalabad
1995-1999	University merit scholarship during B.Sc. (Honors)

DISTINCTIONS IN SPORTS

1996 Got first position in 100 meter race

PROFESSIONAL SOCIETIES AND ORGANIZATIONS

Member Society for the advancement for Agricultural Sciences, Pakistan

Member Soil Science Society of Pakistan

Member Member advisory board, Soil and Environmental Sciences Students Society, University of Agriculture, Faisalabad

PARTICIPATION IN PROFESSIONAL CONFERENCES, SYMPOSIA, AND WORKSHOPS

Participated in many international and national professional conferences, symposia, and workshops to present volunteer papers relating to assessment of water quality for irrigation, marginal-quality water use for crop production, characterization of salt-affected soils, salt tolerance of crops, plant-assisted amelioration of calcareous sodic soils, and heavy metal contamination in soils and crops irrigated with municipal sewage effluent.

SCIENTIFIC CONFERENCES ATTENDED

1. Attended the seminar in 2010 “toxicity & biotransformation of metal oxide nanoparticles in Terrestrial plants” by Dr. Jorge Gardea-Torresdey (Chairman - Dept of Chemistry, Dudley, Professor of Chemistry and Environmental Science and Engineering, University of Texas at El Paso).
2. Environmental impacts and remediation of metal contaminated soils by Dr. Lena Q. Ma Professor, Biogeochemistry of trace metals, Soil and Water Science Department, University of Florida, USA
3. 10th Intl. Cong. Soil Sci., Soc. Pak., on soil management for sustainable agriculture and the environment. March 28-31, 2006. National Agricultural Research center Islamabad.
4. International symposium on “Sustainable Crop Improvement & Integrated Management”. 14-16 September, 2006. Faculty of Agriculture, University of Agriculture Faisalabad Pakistan
5. National seminar on “Soil Care For Sustainable Environment”. May 16-17, 2006. Institute of Soil and Environmental Sciences, University of Agriculture Faisalabad
6. International conference on saline agriculture. Sustainable agriculture on salt-affected land. Dec 4-6, 2006. SARC, University of Agriculture Faisalabad.
7. International conference on productivity and growth in agriculture: Strategies and interventions. Dec 6-7, 2006. Faculty of Agricultural Economics and Rural Sociology, University of Agriculture Faisalabad.
8. International work shop on allelopathy. Prospects and application. March 19-21, 2007. Department of Agronomy, University of Agriculture, Faisalabad.

9. Participated and presented a poster paper in SuperSoil 2004: 3rd Australian New Zealand Soils Conference, 5 – 9 December 2004, University of Sydney, Australia. Published on CDROM. Website www.regional.org.au/au/asssi/.

10. Participated in workshop on "Sustainable Management of Wastewater for Agricultural Production in Water Scarce Countries" 11–15 November 2007, ICARDA, Aleppo, Syria

ORGANIZATION OF SEMINARS

1. Secretary of the Accommodation Committee International conference on saline agriculture. Sustainable agriculture on salt-affected land. Dec 4-6, 2006. SARC, University of Agriculture Faisalabad
2. Member of the Transport Committee International work shop on allelopathy. Prospects and application. March 19-21, 2007. Department of Agronomy, University of Agriculture, Faisalabad.
3. Member of the Registration Committee, University Alumni Association

COMPUTER SKILLS

Expertise in preparing posters of different types through appropriate software, which can be presented at certain forums such as professional meetings, and as demonstration to students, farmers, and relevant industry. The specific computer software of frequent use is:

Word processing	:	MS-Word, Word Perfect.
Graphics	:	Power Point.
Statistical Package	:	MSTAT-C, STATISTICA, Minitab, MS-Excel.
Communication	:	Netscape Navigator, MS-Outlook
Professional Presentation	:	MS-Power Point.

LANGUAGES

English:	Excellent level of reading, writing, and conversation.
Urdu :	Excellent level of reading, writing, and conversation.
Arabic:	Excellent level of reading and writing and average level conservation

COURSES OFFERED

Offered the following courses to the students at the under- and postgraduate levels.

SES-706 :	Advance in Soil Chemistry
SES-701 :	Soil Chemistry
ES-736:	Environmental Risk Assessment and Management
SES-302 :	Salt-affected Soils and Water Quality
SES-303 :	Chemical Properties of Soils
ENV-507:	Environmental Governance
ENV-506	Public Health and Environment
SES-312 :	Soil Chemistry and Plant Growth
SES-101 :	Soil Science I & II

SES-319 : Introduction to Environmental Sciences

MISCELLANEOUS ASSIGNMENTS

1. Worked as "Judge" of the poster session of the 11th Research Forum of Soil and Water Science Department, University of Florida, Gainesville, USA.
2. Organized games, speeches, extra- and co-curricular activities among the students of different Departments and Faculties in different tutorial groups of the University of Agriculture, Faisalabad, Pakistan
3. Tutor of tutorial group Agr-13 (January 13, 2007 to date).
4. President of Football team of University of Agriculture, Faisalabad
5. Vice president Weightlifting team University of Agriculture, Faisalabad
6. Assistant Superintendent Teepu Hall, University of Agriculture, Faisalabad
7. Member Advisory Board Agrarian Society, University of Agriculture, Faisalabad

ORGANIZATION OF FARMERS' DAYS

Organized farmers' field days at the experimental sites of different projects. Extension articles written in Urdu, the national language of Pakistan, were distributed among the participating farmers. Expert lectures were given to the farmers regarding the management of poor-quality waters and soils. Such meetings helped in improving scientist-farmer collaboration for better technology transfer relating to the use of marginal-quality waters and soils for crop production.

4. RESEARCH

(a) Research Interests

- Risk Assessment of heavy metal contamination in water, air & soil
- Management and remediation of salt and metal contaminated soils and waters
- Trace element Geochemistry in urban soils under immense pressure of urbanization
- Role of plant nutrients in bioremediation processes.
- Nutrition of crops under stress environment.

(b) PUBLICATIONS/CITATIONS DATA

Total Manuscripts published in international peer-reviewed Journals: **110**

Manuscripts published in Journals with Impact Factor: **75**

Manuscripts published in Journals without Impact Factor: **35**

Book Chapters contributed in International Edited Book(s): **10**

Book Published by International Publisher: **2**

CITATIONS (according to **Google Scholar Citation** Index as on January 3 **, 2025): 7400**

https://scholar.google.com/citations?user=uap2tjcAAAAJ&hl=en

PAPERS IN PEER-REVIEWED INTERNATIONAL JOURNALS WITH IMPACT FACTOR

2024 Muhammad Moaz Khursheed, Muhammad Sabir, Saif Ullah, Ghulam Murtaza, Zia Ur Rahman Farooqi & Ejaz Ahmad Waraich. 2024. Application of different phosphatic fertilizers influences the different phosphorus fractions and morphophysiological traits of wheat in saline sodic soil. Journal of Plant Nutrition. https://doi.org/10.1080/01904167.2024.2415473.

2024. Abdul Ghafoor, Hayfa Habes Almutairi, Munthir Almoslem, **Saifullah**, Khalid Turk, Muhammad Munir, Faisal Zeineldin, and Shafaqat Ali. (2024). Assessment and Modeling of the Vulnerability of Regional Aquifers to Anthropogenic Perturbations. Journal of Ecological Engineering, 25(7).

2024 Nadeem, Faisal, Rashid Mahmood, Muhammad Anwar-ul-Haq, Muhammad Sabir, **Saifullah**, Chongwei Jin, Tayyaba Samreen, and Muhammad Saleem Haider. 2024. Zinc provisioned enhancement of manganese use efficiency results in differential biomass and grain production in two rice cultivars grown in clay loam soil. Journal of Soil Science and Plant Nutrition. https://doi.org/10.1007/s42729-024-01700-5.

2023 Humaira Ishaq, Ejaz Ahmad Waraich, Saddam Hussain, Muhammad Ahmad, Zahoor Ahmad and **Saifullah**. 2023. Silicon-Mediated Growth, Physiological, Biochemical and Root Alterations to Confer Drought and Nickel Stress Tolerance in Maize (Zea mays L.). Silicon. https://doi.org/10.1007/s12633-023-02536-x.

2023 Nukshab Zeeshan , Zia Ur Rahman Farooqi , Iftikhar Ahmad , Ghulam Murtaza , Aftab Jamal , **Saifullah**, Ayesha Abdul Qadir and Emanuele Radicetti. Trace Metals in Rice Grains and Their Associated Health Risks from Conventional and Non-Conventional Rice Growing Areas in Punjab-Pakistan. Sustainability, 15:7259. https://doi.org/10.3390/su15097259

2023 Khalid Mehmood, **Saifullah**, Xuchun Qiu, Muhammad Mohsin Abrar. 2023. Unearthing research trends in emissions and sustainable development: Potential implications for future directions. Gondwana Research, 119:227-245.

2023 Saad Dahlawi, Muhammad Sadiq, Muhammad Sabir, Zia ur Rehman Farooqi, **Saifullah**, Ayesha Abdul Qadir and Turki Kh Faraj. 2023. Differential response of brassica cultivars to potentially toxic elements and their distribution in different plant parts irrigated with metal-contaminated water. Sustainability, 15:1966.

2023 Assad Hafeez, William James Dangel, Samuel M Ostroff, Ayyaz Gul Kiani, Scott D Glenn, Jaffar Abbas, Muhammad Sohail Afzal, Saira Afzal, Sajjad Ahmad, Ali Ahmed, Haroon Ahmed, Liaqat Ali, Muhammad Ali, Zahid Ali, Muhammad Arshad, Tahira Ashraf, Zulfiqar A Bhutta, Sadia Bibi, Zahid A Butt, Jai K Das, Zehra Fadoo, Asif Hanif,

Khezar Hayat, Ayesha Humayun, Khalid Iqbal, Usman Iqbal, Nauman Khalid, Ejaz Ahmad Khan, Muhammad Shahzeb Khan, Ahmad Azam Malik, Muhammad Naveed, Shumaila Naz, Robina Khan Niazi, Zahra Zahid Piracha, Umar Saeed, Muhammad Salman, Zainab Samad, Muhammad Arif Nadeem Saqib, Syed Mahboob Shah, Izza Shahid, Masood Ali Shaikh, Hina Shamshad, Kanwar Hamza Shuja, Muhammad Suleman, Anayat Ullah, Irfan Ullah, **Saif Ullah**, Sana Ullah, Yasir Waheed, Abdul Waris, Simon I Hay, Christopher JL Murray, Ali H Mokdad. The state of health in Pakistan and its provinces and territories, 1990–2019: a systematic analysis for the Global Burden of Disease Study 2019. Lancet Global Health, 11 pp. e229-e243

2022 Mehmood, K., Bao, Y., **Saifullah**, Cheng, W., Khan, M. A., Siddique, N., Abrar, M. M., & Naidu, R. 2022. Predicting the quality of air with machine learning approaches: Current research priorities and future perspectives. *Journal of Cleaner Production*, 134656.

2022 AlMulla, A. A., **Saifullah**, Berekaa, M., and Dahlawi, S. 2022. Human Exposure Assessment to Air Pollutants in AC Filters from Agricultural, Industrial, and Residential Areas. *Atmosphere*, *13*(11), 1899.

2022 Shehzad, M. T., M. Sabir, **Saifullah,** A.B. Siddique, M.M. Rahman, and R. Naidu. 2022. Impact of Water Regimes on Minimizing the Accumulation of Arsenic in Rice (*Oryza sativa* L.). Water, Air, and Soil Pollution, 233:1-12.

2022 Sabir, M., S. Usman, **Saifullah**, S. Bibi, H.R. Ahmad, S. Nazar, and Z.U.R. Farooqi. 2022. Nitrogen Forms Modify Growth Response and Accumulation of Potentially Toxic Elements by Wheat Genotypes in Nickel-Contaminated Soil. CLEAN–Soil, Air, Water, 2100231.

2022 Mehmood, K., Y. Bao, **Saifullah**, S. Bibi, S. Dahlawi, M. Yaseen, M.M. Abrar and T.K. Faraj. 2022. Contributions of open biomass burning and crop straw burning to air quality: Current research paradigm and future outlooks. Frontiers in Environmental Science, 84.

2022 Zia Ur Rahman Farooqi, Ghulam Murtaza, Sadia Bibi, Muhammad Sabir, Gary Owens, **Saifullah**, Iftikhar Ahmad, and Nukshab Zeeshan. 2022. Immobilization of cadmium in soil-plant system through soil and foliarapplied silicon. International Journal of Phytoremediation. 24:1193-1204.

2022 Mehmood, K., S. Mushtaq, Y. Bao, **Saifullah,** S. Bibi, M. Yaseen, M.A. Khan, M.M Abrar, Z. Ul hassan, S. Fahad, G. P. Petropoulos. 2022. The impact of COVID-19 pandemic on air pollution: a global research framework, challenges, and future perspectives. Environmental Science and Pollution. 29:52618–52634

2022 Mehmood K, Bao Y, Mushtaq S, **Saifullah**, Khan MA, Siddique N, Bilal M, Heng Z, Huan L, Tariq M and Ahmad S. 2022. Perspectives from remote sensing to investigate the COVID-19 pandemic: A future-oriented approach. Front. Public Health 10:938811. doi: 10.3389/fpubh.2022.938811.

2021 Abbas, B., S. Bibi, G. Abbas, M. Saqib, N. Masood, B. Murtaza, and A. Shabbir and **Saifullah.** 2021. Multivariate analysis of heavy metals contents and associated health hazards in commercially available vegetables in Faisalabad, Pakistan. Pakistan Journal of Agricultural Sciences, 58(2).

2021 Sabir, M., Naseem, Z., Ahmad, W., Usman, M., Nadeem, F., **Saifullah**, & Ahmad, H. R. (2021). Alleviation of adverse effects of nickel on growth and concentration of

copper and manganese in wheat through foliar application of ascorbic acid. *International Journal of Phytoremediation*, 1-9.

2021 Dahlawi, S., Al Mulla, A.A., **Saifullah**, Salama, K., Labib, O.A., Aljassim, M.T., Akhtar, A., Asghar, W., Faraj, T.K. and Khalid, N., 2021. Assessment of different heavy metals in cigarette filler and ash from multiple brands retailed in Saudi Arabia. *Journal of King Saud University-Science*, p.101521.

2021 Abbas, B., Bibi, S., Abbas, G., Saqib, M., Masood, N., Murtaza, B. and Shabbir, A., and **Saifullah.** 2021. Multivariate analysis of heavy metals contents and associated health hazards in commercially available vegetables in faisalabad, pakistan. *Pakistan Journal of Agricultural Sciences*, *58*(2).

2021 Mehmood, K., Bao, Y., Petropoulos, G.P., Abbas, R., Abrar, M.M., **Saifullah**, Mustafa, A., Soban, A., Saud, S., Ahmad, M., Hussain, I. and Fahad, S., 2021. Investigating connections between COVID-19 pandemic, air pollution and community interventions for Pakistan employing geoinformation technologies. *Chemosphere*, *272*, p.129809.

2021 Naeem, A., Aslam, M., **Saifullah**, and Mühling, K.H., 2021. Lithium: Perspectives of nutritional beneficence, dietary intake, biogeochemistry, and biofortification of vegetables and mushrooms. *Science of The Total Environment*, p.149249.

2021 Bao, Y., Mehmood, K., **Saifullah**, Yaseen, M., Dahlawi, S., Abrar, M.M., Khan, M.A., Saud, S., Dawar, K., Fahad, S. and Faraj, T.K., 2021. Global research on the air quality status in response to the electrification of vehicles. *Science of The Total Environment*, *795*, p.148861.

2021 Dahlawi, S., Menezes, R.G., Khan, M.A. and Waris, A., **Saifullah** and M.M. Naseer. 2021. Medical negligence in healthcare organizations and its impact on patient safety and public health: a bibliometric study. *F1000Research*, *10*.

2021 Mehmood, K., Bao, Y., Abbas, R., **Saifullah**, Petropoulos, G.P., Ahmad, H.R., Abrar, M.M., Mustafa, A., Abdalla, A., Lasaridi, K. and Fahad, S., 2021. Pollution characteristics and human health risk assessments of toxic metals and particle pollutants via soil and air using geoinformation in urbanized city of Pakistan. *Environmental Science and Pollution Research*, pp.1-15.

2021 Mehmood, K., Bao, Y., Abrar, M.M., Petropoulos, G.P., **Saifullah**, Soban, A., Saud, S., Khan, Z.A., Khan, S.M. and Fahad, S., 2021. Spatiotemporal variability of COVID-19 pandemic in relation to air pollution, climate and socioeconomic factors in Pakistan. *Chemosphere*, *271*, p.129584.

2021 Dahlawi, Saad; Berekaa, Mahmoud; Salama, Khaled; Labib,Ossama; S**aifullah**; Asghar, Waqas; Khalid, Nauman Profiling of essential mineral content, heavy metals, and bacterial contaminants in conventional and organic eggs available in the hypermarkets of the Eastern Province of Saudi Arabia. Source: Recent Patents on Food, Nutrition & Agriculture, Volume 12, Number 2, 2021, pp. 134-142(9)

2020 Sipra, S., **Saifullah**, Abrar, M.M., Iqbal, M., Haider, E. and Shoukat, H.M.H. 2020. Can PM2.5 pollution worsen the death rate due to COVID-19 in India and Pakistan?. *The Science of the total environment*, *742*, p.140557.

2020 Mehmood, K., **Saifullah**, Iqbal, M., Rengel, Z. and Abrar, M.M., 2020. Pakistan and India collaboration to improve regional air quality has never been more promising. *Integrated Environmental Assessment and Management*, *16*(5), pp.549-551.

2020 Mehmood, K., **Saifullah**, M.I. and Abrar, M.M., 2020. Can exposure to PM2. 5 particles increase the incidence of coronavirus disease 2019 (COVID-19)?. *The Science of the Total Environment*, *741*, p.140441.

2020 Riaz, U., Murtaza, G., **Saifullah**, Farooq, M., Aziz, H., Qadir, A.A., Mehdi, S.M. and Qazi, M.A., 2020. Chemical fractionation and risk assessment of trace elements in sewage sludge generated from various states of Pakistan. *Environmental Science and Pollution Research*, *27*(32), pp.39742-39752.

2020 Mehmood, K., Ahmad, H.R., Abbas, R., **Saifullah**, and Murtaza, G., 2019. Heavy metals in urban and peri-urban soils of a heavily-populated and industrialized city: Assessment of ecological risks and human health repercussions. *Human and Ecological Risk Assessment: An International Journal*. 26(6) 1705-1722.

2019. Farooq, M.A., A.K. Niazi, J. Aktar, **Saifullah**, M. Farooq, Z. Souri, N. Karimi and Zed Rengel. 2019. Acquiring control: The evolution of ROS-induced oxidative stress and redox signaling pathways in plant stress responses. Plant Physiology and Biochemistry.141:353-369.

2019. 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. Arabian Journal of Geoscience. 12:283.

2019 Mehmood, K., H.R. Ahmad, Roman 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. Human and Ecological Risk Assessment: An International Journal. http://doi.org/10/1080.

2018 Naveed, M., **Saifullah**, Riaz, U., Murtaza, G., Bibi, S., Arooj, A. and Q. Zaman, 2018. Strategic use of water: a step toward cadmium-free basmati rice (Oryza sativa L.). Paddy and Water Environment. 16:867-873.

2018 Naeem, A., **Saifullah**, Zia-ur-Rehman, M., Akhtar, T., Zia, M.H. and Aslam, M., 2018. Silicon nutrition lowers cadmium content of wheat cultivars by regulating transpiration rate and activity of antioxidant enzymes. Environmental pollution, 242: 126-135.

2018 Riaz, Umair, Ghulam Murtaza, **Saifullah**, and Muhammad Farooq. 2018. Influence of different sewage sludges and composts on growth, yield, and trace elements accumulation in rice and wheat. Land Degradation & Development 29: 1343-1352.

2018 **Saifullah**, Dahlawi, Saad, Asif Naeem, Zed Rengel, and Ravi Naidu. 2018. Biochar application for the remediation of salt-affected soils: Challenges and opportunities. Science of The Total Environment 625: 320-335.

2018 **Saifullah**, Dahlawi, Saad, Asif Naeem, Muhammad Iqbal, Muhammad Ansar Farooq, Sadia Bibi, and Zed Rengel. 2018. Opportunities and challenges in the use of mineral nutrition for minimizing arsenic toxicity and accumulation in rice: A critical review." Chemosphere 194: 171-188.

2018 Rehman, M.Z., M. Rizwan, S. Ali, A. Naeem, B. Yousaf, Gujian Lui, H. Khalid, **Saifullah**, F. Hafeez and M. Azhar. 2018. A filed study investigating the potential use of

phosphorus combined with organic amendments on cadmium accumulation by wheat and subsequent rice. Arabian Journal of Geoscience. 11:594.

2018 Riaz, U., G. Murtaza, **Saifullah**, and M. Farooq. 2018. Comparable effect of commercial composts on chemical properties of sandy clay loam soil and accumulation of trace elements in soil-plant system. International Journal of Agriculture and Biology. 20:85-92.

2017 Waraich, E. A., Ahmed, Z., Ahmad, R., **Saifullah**, Shahbaz, M., & Ehsanullah. (2017). Modulation in growth, development, and yield of Camelina sativa by nitrogen application under water stress conditions. Journal of Plant Nutrition, 40(5), 726-735.

2017 Abbas, M. S., Akmal, M., **Saifullah**, Hassan, M. U., & Farooq, S. (2017). Effectiveness of Zinc and Gypsum Application Against Cadmium Toxicity and Accumulation in Wheat (Triticum aestivum L.). Communications in Soil Science and Plant Analysis, 48(14), 1659-1668.

2017 Muhammad Zia ur Rehman, Muhammad Rizwan, Shafaqat Ali, Yong Sik Ok, Wajid Ishaque, **Saifullah**, Muhammad Farrakh Nawaz, Fatima Akmal, Maqsooda Waqar. 2017. Remediation of heavy metal contaminated soils by using Solanum nigrum: A review. Ecotoxicology and environmental safety 143: 236-248.

2016 **Saifullah**, H. Javed, A. Naeem, Z. Rengel and Saad Dahlawi. 2016. Timing of foliar Zn application plays a vital role in minimizing Cd accumulation in wheat. Environmental Sciences and Pollution Research. 23:16432–16439. **(Impact factor: 2.87).**

2016 **Saifullah,** M.N. Khan, M.Iqbal, A. Naeem, S. Bibi, E.A. Waraich and S. Dahalwi. 2016. Elemental sulfur improves growth and phytoremediative ability of wheat in lead (Pb) contaminated calcareous soils. **International Journal of Phytoremediation.** 18:1022-1028. **(Impact factor 1.87).**

2016. Naeem, A., **Saifullah**, M.Z. Rehman, T. Akhtar, Y.S. OK and Z. Rengel. 2016. Genetic Variation in Cadmium Accumulation and Tolerance among Wheat Cultivars at the Seedling Stage. **Communications in Soil Science and Plant Analysis**. 47:554-562. **(Impact Factor 0.39).**

2015 Ejaz Ahmad Waraich, Zahoor Ahmad, Rashid Ahmad, **Saifullah** and M.Y. Ashraf. 2015. Foliar applied phosphorous enhanced growth, chlorophyll contents, gas exchange attributes and PUE in wheat (*Triticum Aestivum* L.). **Journal of Plant Nutrition**. 38:1929-1943. **(Impact factor: 0.494).**

2015 Ghulam Farid, Nadeem Sarwar, **Saifullah**, Ayaz Ahmad, Abdul Ghafoor and Mariam Rehman. 2015. Heavy metals (Cd, Ni and Pb) contamination of soils, plants and waters in Madina town of Faisalabad metropolitan and preparation of GIS based maps. **Adv Crop Sci Tech** 4: 199. doi:10.4172/2329-8863.1000199.

2015 Asif Naeem, **Saifullah**, Abdul Ghafoor and Muhammad Farooq. 2015. Suppression of cadmium accumulation in wheat grains is related its application rate and cadmium accumulating abilities of cultivars. **Journal of the Science of Food and Agriculture**. 97:2467-2472. **(Impact factor: 2.076)**

2014 **Saifullah**, Nadeem Sarwar, Sadia Bibi and Yong Sik Ok. 2014. Effectiveness of zinc application to minimize cadmium toxicity and accumulation in wheat (*Triticum aestivum* L.). **Environmental Earth Sciences**. 71: 1663-1672. **(Impact factor: 1.765)**

2014 Choppala, G.K. **Saifullah**, N.S. Bolan, S. Bibi, M. Iqbal, Z. Rengel and Yong Sik Ok. 2014. Cellular Mechanisms in Higher Plants Governing Tolerance to Cadmium Toxicity. **Critical Reviews in Plant Sciences**. 33:374-391. **(Impact factor: 5.442)**

2014 Mohsin, A.U., A.U.H. Ahmad, M. Farooq and **Saifullah**. Influence of zinc application through seed treatment and foliar spray on growth, productivity and grain quality of hybrid maize. **Journal of Animal and Plant Sciences**. 24:1494-1503.

2013 Ejaz Ahmad Waraich, Zeeshan Ahmed, Rashid Ahmad, Muhammad Yasin Ashraf, **Saifullah**, Muhammad Shahbaz Naeem and Zed Rengel. Camelina sativa, a climate proof crop, has high nutritive value and multiple-uses: a review. **Australian Journal of Crop Sciences**.7:1551-1559. **(Impact factor: 1.029)**

2013 Saifullah, Sadia Bibi and Ejaz Ahmed Waraich. 2013. Effect of Pb forms and organic acids on Phytoremediative ability of wheat grown in solution culture. **Communications in Soil Science and Plant Analysis**. 44:3150-3160. **(Impact factor: 0.390)**

2013 M. Shahbaz Akhtar, Makoto Nishigaki, Yoko Oki, Tadashi Adachi, Yoshitaka Nakashima, Ghulam Murtaza, Tariq Aziz, Muhammad Sabir, **Saifullah**, M. Aamer Maqsood, M. Zia-ur-Rehman, Abdul Wakeel, Yuki Nakamoto and Claudia Hartwig. 2013. Solubilization and acquisition of phosphorus from sparingly soluble phosphorus sources and differential growth response of brassica cultivars exposed to phosphorus-stress environment. **Communications in Soil Science and Plant Analysis**. 44:1242–1258. **(Impact factor: 0.390)**

2013 Muhammad Sabir, Mohamed Musa Hanafi, Tariq Aziz, Hamaad Raza Ahmad, Muhammad Zia-Ur-Rehman, **Saifullah**, Ghulam Murtaza and Khalid Rehman Hakeem. 2013. Comparative effect of activated carbon, pressmud and poultry manure on immobilization and concentration of metals in maize (zea mays) grown on contaminated soil. **International Journal of Agriculture and Biology**. 15: 559-564. **(Impact factor: 0.94)**

2012. Rahmatullah, G. Murtaza, A. Ghafoor and **Saifullah**. 2012. Improving the performance of wheat (Triticum aestivum L.) by seed priming in salt-affected soils irrigated with saline-sodic water. **Journal of Animal and Plant Sciences**. 22-1055-

1059. **(Impact factor: 0.74)**

2012 Zahir A.Z., S.S. Akhtar, M. Ahmad, **Saifullah** and S. M. Nadeem. 2012. Comparative effectiveness of Enterobacter aerogenes and Pseudomonas fluorescens for mitigating the depressing effect of brackish water on maize. **International Journal of Agriculture and Biology**. 14: 337-344. **(Impact factor: 0.94)**

2012 A. Ghafoor, G. Murtaza, M. Z. Rehman, **Saifullah** and M. Sabir. 2012. Reclamation and salt leaching efficiency for tile drained saline-sodic soil using marginal quality water for irrigating rice and wheat crops**. Land Degradation and Development**. 23: 1–9. **(Impact factor: 3.089)**

2011 Qamar, M.J. A. Ghafoor, G. Murtaza, **Saifullah** and M.Z. Rehman. 2011. Use of low quality groundwater for reclamation of saline-sodic soil by growing rice and wheat crops. **Pakistan Journal of Botany**: 43: 2711-2715. **(Impact factor: 0.84).**

2011 Waraich, E.A., A. Rasheed, **Saifullah**, M.Y. Ashraf and Ehsanullah. 2011. Role of mineral nutrition in alleviation of drought stress. **Australian Journal of Crop Science**. 5: 764-777.

2011 Waraich, E.A., R. Ahmad, M.Y. Ashraf, **Saifullah** and M. Ahmad. 2011. Improving agricultural water use efficiency by nutrient management in crop plants. **Acta Agriculturae Scandinavica Section B_Soil and Plant Science**. 61-291-304. **(Impact factor: 0.7)**

2011 Sabir, M., A. Ghafoor, **Saifullah**, M.Z.U. Rehman, H.R. Ahmad and T. Aziz. 2011. Growth and metal ionic composition of Zea mays as affected by nickel supplementation in the nutrient solution. **Int. J. Agric. Biol.** 13: 186–190 **(Impact factor: 0.94)**

2011 Ahmad, H.R., A. Ghafoor, D.L. Corwin, M.A. Aziz, **Saifullah** and M. Sabir. 2011. Organic and Inorganic Amendments Affect Soil Concentration and Accumulation of Cadmium and Lead in Wheat in Calcareous Alkaline Soils. **Communications in Soil Science and Plant Analysis**. 42: 111-122. **(Impact factor: 0.390)**

2011 Waraich, E.A., A. Rasheed, **Saifullah** and S. Ahmad. 2011. Water stress and nitrogen management effects on gas exchange, water relations and water use efficiency in wheat. **Journal of Plant Nutrition**. 34: 1867-1882. **(Impact factor: 0.494)**

2011 Aziz, M.A., A. Ghafoor, H. R. Ahmad, M.Z. Rehman, M. Sabir and **Saifullah**. 2011. Wheat Assimilation of Nickel and Zinc added in Irrigation Water as affected by Organic Matter. **Journal of Plant Nutrition** 34:27–33. **(Impact factor: 0.494)**

2010 G. Murtaza, A. Ghafoor, M. Qadir, M.A. Aziz, M.H. Zia and **Saifullah**. 2010. Disposal and use of sewage on agricultural lands in Pakistan: A review**. Pedosphere** 20: 23-34. **(Impact factor: 1.50)**

2010 Nadeem Sarwar, **Saifullah**, Sukhdev S. Malhi, M. H. Zia, Asif Naeem, Sadia Bibi and Ghulam Farid. 2010. Role of Mineral Nutrition in Minimizing Cadmium Accumulation by Plants. **Journal of the Science of Food and Agriculture** 90: 925–937. **(Impact factor: 1.714)**

2010 **Saifullah**, Abdul Ghafoor, Munir Hussain Zia Ghulam Murtaza, Ejaz Ahmad Waraich, Sadia Bibi and P. Srivastava. 2010. Comparison of organic and inorganic amendments

for enhancing soil lead phytoextraction by wheat (*Triticum aestivum* L.). **International Journal of Phytoremediation**. 12: 633-649. **(Impact factor: 1.739)**

2010 **Saifullah**, M. H. Zia, E. Meers, A. Ghafoor, G. Murtaza, M. Sabir M. Z. Rehman and F.M.G. Tack. 2010. Chemically enhanced phytoextraction of Pb by wheat in texturally different soils. **Chemosphere**. 79:652-658. **(Impact factor: 3.340)**

2010 Waraich, E.A., A. Rasheed, **Saifullah** and S. Ahmad. 2010. Impact of water and nutrient management on the nutritional quality of wheat (triticum aestivum l.). **Journal of Plant Nutrition**. 33: 640-653. **(Impact factor: 0.494)**

2010 **Saifullah**, Abdul Ghafoor, Ghulam Murtaza, Ejaz Ahmad Waraich and Munir Hussain Zia. 2010. Effect of ethylenediaminetetracetic acid on growth and phytoremediative ability of two wheat varieties. **Communications in Soil Science and Plant Analysis**. 41: 1478-1492. **(Impact factor: 0.390**)

2009 **Saifullah**, E. Meers, M. Qadir, P. de Caritat, F.M.G. Tack, G. Du Laing and M.H. Zia. 2009. EDTA-assisted Pb phytoextraction. **Chemosphere**. 74:1279-1291. **(Impact factor: 3.340)**

2009 **Saifullah**, A. Ghafoor and M. Qadir. 2009. Lead phytoextraction by wheat in response to EDTA application method. **International Journal of Phytoremediation** 11:268-282. **(Impact factor: 1.870)**

2008 Waraich, E. A., R. Ahmad, S. Ahmad, **Saifullah**. 2008. Water use efficiency and yield performance of wheat (*Triticum aestivum* l.) under different levels of irrigation and nitrogen. **Caderno de Pesquisa, série Biologia**. 20:22-34.

2008 Sabir, M., A. Ghafoor, **Saifullah**, M. Z. Rehman and G. Murtaza. 2008. Effect of organic amendments and incubation time on extractability of Ni and other metals from contaminated soils. **Pakistan Journal of Agricultural Sciences**. 45:18-24. **(Impact factor: 1.049)**.

2008 Rehman, M. Z., A. Ghafoor, M. Sabir, **Saifullah**, A. Naeem and H.R. Ahmad. 2008. Extractants for the assessments of phytoavailable cadmium to rice grown in cadmium contaminated soils. **Pakistan Journal of Agricultural Sciences**. 45:11-17. **(Impact factor: 1.049)**

2008 **Saifullah**, A. Ghfoor, M. Sabir, M. Z. Rehman and M. Yaseen. 2008. Removal of lead from contaminated soils by organic acids. **International Journal of Agriculture and Biology** 10:173-178. **(Impact factor: 0.94)**

2007 Waraich, E.A, M. Rasheed, A. Ali, Saifullah. 2007. Irrigation and nitrogen effects on grain development and yield in wheat (*Triticum aestivum* L.). **Pakistan Journal of Botany.** 39:1663-1672. **(Impact factor: 0.84)**

2007 Zia, M.H., **Saifullah**, M. Sabir, A. Ghafoor and G. Murtaza. 2007. Effectiveness of sulphuric acid and gypsum for the reclamation of a calcareous saline-sodic soil under four crop rotations. **Journal of Agronomy and Crop Science** 193:262-269. **(Impact factor: 2.44)**

2007 Waraich, E.A., R. Ahmed, **Saifullah** and M. Sabir. 2007. Nitrogen nutrition and water stress effects on growth and water use efficiency of wheat (*Triticum aestivum* L.). **Pakistan Journal of Agricultural Sciences**. 44:64-73. **(Impact factor: 1.049)**

2007 Aziz, M.A., A. Ghafoor, **Saifullah**, H.R. Ahmad and M. Sabir. 2007. Effect of glucose and acetic acid on Ni, Pb and Zn transformation in contaminated soils. **Pakistan Journal Agricultural Sciences.** 44:228-235. **(Impact factor: 1.049)**

2007 Waraich, E.A., R. Ahmed, M. Ashraf and **Saifullah**. 2007. Irrigation and nitrogen effects on grain yield, yield components and water use efficiency of wheat. **Pakistan Journal of Scientific Research**. 59:91-97.

2006 Qadir, M., S. Schubert, A.D. Noble, M. Saqib, and **Saifullah**. 2006. Amelioration strategies for salinity-induced land degradation. **CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources** 1 (069): 1-12.

2006 Zia, M.H., A. Ghafoor, **Saifullah** and Th.M. Boers. 2006. Comparison of sulfurous acid generator and alternate amendments to improve the quality of saline-sodic water for sustainable rice yields. **Paddy and Water Environment** 4:153-162. **(Impact factor: 1.15)**

2006 Zia, M.H., A. Ghafoor, G. Murtaza, **Saifullah** and S.M.A. Basra. 2006. Growth response of rice and wheat crops during reclamation of saline-sodic soils. **Pakistan Journal of Botany** 38: 249-266. **(Impact factor: 0.84)**

2002 Murtaza, G., A. Ghafoor, M. Qadir, and **Saifullah**. 2002. Brackish water management options for rice and wheat crops during reclamation of saline-sodic soils. **Pakistan Journal of Soil Science** 21:77-82.

2002 Saifullah, A. Ghafoor, G. Murtaza, and M. Qadir. 2002. Brackish tube well water promotes growth of rice and wheat and reclamation of saline-sodic soils. **Pakistan Journal of Soil Science** 21:83-88.

2002 Nadeem, S.M., A. Ghafoor, G. Murtaza and **Saifullah**. 2002. Reclamation of dense-saline-sodic soils through physical and chemical methods. **Pakistan Journal of Soil Science** 21:67-71.

2002 **Saifullah**, A.M. Ranjha, M. Yaseen and M.E. Akhtar. 2002. Response of wheat to potassium fertilization under field conditions. **Pakistan Journal of Agricultural Sciences** 39: 269-272. **(Impact factor: 1.049)**

2001 Rashid, H.H., A.M. Ranjha, S.M. Mehdi and **Saifullah**. 2001. Relative efficiency of muriate and sulphate of potash for wheat. **International Journal Agriculture and Biology** 3:403:405. **(Impact factor: 1.049)**

2001. Ranjha, A.M., S.M. Mehdi, **Saifullah** and T. Mahmood. 2001. Quantity intensity relations of K in three Alluvial soils. **International Journal of Agriculture and Biology**. 3:89-91. **(Impact factor: 0.94)**

2000 Ghafoor, A., **Saifullah** and G. Murtaza. 2000. Estimation of ionic strength from

electrical conductivity of Punjab ground waters. **Pakistan Journal of Agricultural Sciences** 37:113-115. **(Impact factor: 1.049)**

BOOKS AND BOOK CHAPTERS

2023 Sultana, S., Sabir, M., **Saif Ullah**, Ahmad, H.R., Murtaza, G. (2023). Contamination of Sewage Water with Active Pharmaceutical Ingredients: An Emerging Threat to Food Products and Human Health. In: Aftab, T. (eds) Emerging Contaminants and Plants. Emerging Contaminants and Associated Treatment Technologies. Springer, Cham. https://doi.org/10.1007/978-3-031-22269-6_8.

2023 Umair Riaz, Laila Shahzad, Muhammad Athar Shafiq, Muhammad Kamran, Humera Aziz, Muhammad Irfan Sohail, SaifUllah and Ghulam Murtaza. 2023. Potential, Mechanism and Molecular Insight of Melatonin in Phyto-Remediation. In: Mukherjee, S., Corpas, F.J. (eds) Melatonin: Role in Plant Signaling, Growth and Stress Tolerance. Plant in Challenging Environments, vol 4. Springer, Cham. https://doi.org/10.1007/978-3-031-40173-2_19.

2016 Murtaza, G., M. Saqib, **Saifullah**, M.Z. Rehman, M. Naveed and A. Ghafoor. 2016**.** Mitigation of climate change impacts through treatment and management of low quality water for irrigation in Pakistan. *In*: Reconsidering the Impact of Climate Change on Global Water Supply, Use and Management. Parkash Rao and Yogesh Patil. (Eds.).

2016. Bibi, S., **Saifullah**, A. Naeem and S. Dahlawi. 2016. Environmental Impacts of Nitrogen in Agriculture, Nitrate Leaching and Mitigation Strategies. pp. 131-157. In: K.R. Hakeem, J. Akhtar, M. Sabir (eds.), Soil Science: Agricultural and Environmental Prospectives, Springer International Publishing Switzerland.

2016 Rehman, M.Z. G. Murtaza, M.F. Qayyum, **Saifullah**, M. Rizwan, S. Ali, F. Akmal and H. Khalid. 2016. Degraded Soils: Origins, Types and Management. pp. 23-65. In: K.R. Hakeem, J. Akhtar, M. Sabir(eds.), Soil Science: Agricultural and Environmental Prospectives, Springer International Publishing Switzerland.

2015 **Saifullah**, M. Shahid, M.Z. Rehman, M. Sabir and H.R, Ahmad. Phytoremedi**ation of** Pb-Contaminated Soils Using Synthetic Chelates**. pp.** 397-414**.** . *In*: K.R. Hakeem, M. Sabir, M. Ozturk, A. Murmet (Eds.), Soil Remediation and Plants: Prospects and Challenges, Elsevier Inc. Academic Press.

2015 Ahmad, H.R., T. Aziz, M.Z. Rehman and **Saifullah**. 2015. Spatial mapping of metal contaminated soils. Pp. 415-431. *In*: K.R. Hakeem, M. Sabir, M. Ozturk, A. Murmet (Eds.), Soil Remediation and Plants: Prospects and Challenges, Elsevier Inc. Academic Press.

2015 Rehman, M.Z., M. Sabir, M. Rizwan, **Saifullah**, H.R. Ahmad and M. Nadeem. 2015. Remediating cadmium-contaminated soils by growing grain crops using inorganic amendments. pp. 367-396. *In*: K.R. Hakeem, M. Sabir, M. Ozturk, A. Murmet (Eds.), Soil Remediation and Plants: Prospects and Challenges, Elsevier Inc. Academic Press.

2015 Sabir, M. · M.Z. Rehman · K.R. Hakeem and· **Saifullah**. 2015. Phytoremediation of metal contaminated soils using organic amendments. pp. 503-523. *In*: Soil Remediation and Plants: Prospects and Challenges. Elsevier Inc. Academic Press.

2013 Ghafoor, A., G. Murtaza, **Saifullah**, M. Z. Rehman, H.R. Ahmad and M. Sabir.

Fundamentals of Soil Chemistry. Allied Book Center, Lahore Pakistan.

2012 Ghafoor, A., G. Murtaza, M.Z Rehman, M. Sabir, H.R. Ahmad and **Saifullah**. 2012. Environment Pollution: Types, Sources and Management. Allied Book Center, Lahore-Pakistan.

2012 Waqar Ahmad, Munir H. Zia, Sukhdev S. Malhi, Abid Niaz and **Saifullah** 2012. Boron Deficiency in Soils and Crops: A Review, Crop Plant, Aakash Goyal (Ed.), ISBN: 978-953-51-0527-5, InTech, Available from: http://www.intechopen.com/books/crop-plant/boron-deficiency-in-soils-and-crops-a-review.

Research Grants

Completed

1. Worked as Scientific Officer in "Farmer Participation in Technology development and transfer for using agricultural drainage water for growing grain crops during reclamation of saline-sodic soils" Total cost in Pakistani rupees 5.39 million (June 2001-July-2004). Funded by National Drainage Program, Water and Power Development Authority, Pakistan.

2. Principal Investigator of the project "Contaminants in city Effluents, Soils, Waters, Plants and Air and mapping pollution hit areas of Faisalabad Metropolitan using GIS. Funded by Higher Education Commission of Pakistan. Total cost 9.50 million.

3. Principal Investigator of the project "Enhancing crop productivity on salt-affected soils through combined use of soil applied gypsum and pre-sowing seed treatments" total cost 1.975 million (From March 2009-May-2012). Funded by Endowment Fund Secretariat University of Agriculture, Faisalabad.

4. Principal investigator of the project "Safe Food production from soils contaminated with cadmium" Funded by Higher Education Commission Pakistan. (October 2011-September-2014) Total cost 3.257 million Pak. Rupees.

5. Co-Principal Investigator of the project "Evaluation and management of sludge and compost from different sources for sustainable agriculture. Funded by Higher Education Commission Pakistan. (January 2013 to January -2016) Total cost 6.328 million Pak. rupees.

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PAPERS PUBLISHED IN PROCEEDINGS OF WORKSHOPS/SYMPOSIA/CONFERENCES

2008 Saifullah, A., Ghafoor, M. Sabir and M.Z. Rehman. 2008. Effect of EDTA on the growth and phytoremediative ability of wheat grown in heavy metal contaminated soil. Proc. First Bridging Workshop on Sustainable management of wastewater for agriculture. Nov. 11-15, 2007. Aleppo, Syria, International Center for Agricultural Research in the Dry Areas..

2007 Ghafoor, A., M.Z. Rehman. G. Murtaza, Saifullah, A. Naeem and M. Sabir. 2007. Availability of cadmium to wheat as affected by soil-applied inorganic amendments.

Proc. International conference on productivity and growth in agriculture: Strategies and interventions. Dec 6-7, 2006. Faculty of Agricultural Economics and Rural Sociology, University of Agriculture Faisalabad.

2006 Ghafoor, A., M.Z. Rehman. G. Murtaza, Saifullah, A. Naeem and M. Sabir. 2007. availability of cadmium to wheat as affected by soil-applied inorganic amendments. Proc. International conference on productivity and growth in agriculture: Strategies and interventions. Dec 6-7, 2006. Faculty of Agricultural Economics and Rural Sociology, University of Agriculture Faisalabad.

EXTENSION ARTICLES

2007 Murtaza, G., A. Ghafoor, M. Sabir and Saifullah. 2007. Use of Brackish water and amendments for sustainable production of Rice and wheat in salt-affected soils. Institute of Soil and Environmental Sciences, University of Agriculture, Faisalabad, Pakistan (in Urdu).

2003 Ghafoor, A., M.S. Zia, G. Murtaza, M. Qadir, Saifullah, and Z. Rehman. 2003. Economical amelioration of dense saline-sodic soils. Department of Soil Science, University of Agriculture, Faisalabad, Pakistan (in Urdu).

2003 Ghafoor, A., G. Murtaza, M. Qadir, Saifullah, and Z. Rehman. 2003. Fertilizer recommendations for wheat, rice, and sugarcane. Department of Soil Science, University of Agriculture, Faisalabad, Pakistan (in Urdu).

2001 Ghafoor, A., G. Murtaza, M. Qadir, Saifullah, and S.M. Nadeem. 2001. Water quality parameters for irrigation. Soil and Water Chemistry Laboratory, Department of Soil Science, University of Agriculture, Faisalabad, Pakistan (in Urdu).

2001 Ghafoor, A., G. Murtaza, M. Qadir, Saifullah, and S.M. Nadeem. 2001. Processes responsible for the formation of saline and sodic soils. Soil and Water Chemistry Laboratory, Department of Soil Science, University of Agriculture, Faisalabad, Pakistan (in Urdu).

2001 Ghafoor, A., G. Murtaza, M. Qadir, Saifullah, and S.M. Nadeem. 2001. Guidelines for sustainable crop production on salt-affected soils. Soil and Water Chemistry Laboratory, Department of Soil Science, University of Agriculture, Faisalabad, Pakistan (in Urdu).

2001 Ghafoor, A., G. Murtaza, M. Qadir, Saifullah, and S.M. Nadeem. 2001. Use of fertilizers for crop production. Soil and Water Chemistry Laboratory, Department of Soil Science, University of Agriculture, Faisalabad, Pakistan (in Urdu).

ABSTRACTS

1 **Saifullah**, A. Ghafoor and G. Murtaza. 2000. Relationship of electrical conductivity and ionic strength for Punjab Ground Waters. 8th Int. Conf. of Soil Sci. Nov. 13-16, 2000, Islamabad, Pakistan. p. 4.

2 **Saifullah**, A. Ghafoor and G. Murtaza. 2000. Relationship of electrical conductivity and ionic strength for Punjab Ground Waters. 8th Int. Conf. of Soil Sci. Nov. 13-16, 2000, Islamabad, Pakistan.

3 Rehman, M.Z., A. Ghafoor, G. Murtaza and **Saifullah**. 2002. Effectiveness of brackish water for reclamation of saline-sodic soils and growth of rice and wheat crops. Presented at "Soil Management Under Stress Environment". 9th Int. Congr. of Soil Sci. March 18-20, 2002, NIAB, Faisalabad, Pakistan. p. 51.

4 Manzoor, M.I., A. Ghafoor, G. Murtaza and **Saifullah**. 2002. Use of poor quality tube well water for reclaiming salt-affected soils and for growing rice-wheat crops. Presented at "Soil Management Under Stress Environment". 9th Int. Congr. of Soil Sci. March 18-20, 2002, NIAB, Faisalabad, Pakistan. p. 52.

5 Nadeem, S.M., A. Ghafoor, G. Murtaza and **Saifullah**. 2002. Reclamation of dense saline-sodic soils through physical and chemical methods. Presented at "Soil Management Under Stress Environment". 9th Int. Congr. of Soil Sci. March 18-20, 2002, NIAB, Faisalabad, Pakistan. p. 52.

6 **Saifullah**, A. Ghafoor and G. Murtaza. 2002. Use of brackish tube well water for growing rice-wheat crops during reclamation of saline-sodic soils. Presented at "Soil Management Under Stress Environment". 9th Int. Congr. of Soil Sci. March 18-20, 2002, NIAB, Faisalabad, Pakistan. p. 52.

7 Murtza, G., A. Ghafoor and **Saifullah**. 2002. Brackish water management options for rice-wheat crops during reclamation of saline-sodic soils. Presented at "Soil Management Under Stress Environment". 9th Int. Congr. of Soil Sci. March 18-20, 2002, NIAB, Faisalabad, Pakistan. p. 53.

8 Ghafoor, A., G. Murtaza, M. Qadir and **Saifullah**. 2002. Gypsum and green manure to grow rice-wheat crops using brackish water during reclamation of saline-sodic soils. 33rd All Pak. Sci. Conf. Dec. 26-28, 2002, Univ. Agri., Faisalabad.

9 **Saifullah**, A. Ghafoor, G. Murtaza and M. Qadir. 2002. Brackish tube well water for sustainable rice-wheat crops and reclamation of saline-sodic soils. 33rd All Pak. Sci. Conf. Dec. 26-28, 2002, Univ. Agri., Faisalabad.

10 **Saifullah**, A. Ghafoor, G. Murtaza and M. Qadir. 2002. Brackish tube well water for sustainable growth of rice-wheat crops and reclamation saline-sodic soils. p. 64. In Abstr. "Sci. for Economic Development of Pakistan". 33rd All Pakistan Sci. Conf. Dec. 26-28, 2002, Univ. Agri., Faisalabad, Pakistan.

11 Ghafoor, A., G. Murtaza, M.I. Qadir and **Saifullah**. 2002. Gypsum and green manure to grow rice-wheat crops using brackish water during reclamation of saline-sodic soils. p. 66. In Abstr. "Sci. for Economic Development of Pakistan". 33rd All Pakistan Sci. Conf. Dec. 26-28, 2002, Univ. Agri., Faisalabad, Pakistan.

12 Rehman, M.Z., A. Ghafoor, G. Murtaza and **Saifullah**. 2004.Use of brackish water to grow rice and wheat crops during reclamation of saline-sodic soil. In Abstr."Management of Natural Resources for Food Security ". 10th Congr. Soil Sci, March 16-19, 2004. Sindh Agri. Univ., Tando Jam, Sindh, Pakistan.

13 **Saifullah**, A. Ghafoor, G. Murtaza, and M. Z. Rehman. 2004. Effect of seed priming on wheat production during reclamation of saline-sodic soil using gypsum and brackish water for irrigation. In Abstr."Management of Natural Resources for Food Security ". 10th Congr. Soil Sci, March 16-19, 2004. Sindh Agri. Univ., Tando Jam, Sindh, Pakistan.

14 Sabir, M. A. Ghafoor, **Saifullah** and S.I. Hussain. Metal ions contamination of vegetables receiving raw city effluent. In abstr. International conference on productivity and growth in agriculture: Strategies and Interventions. Dec 6-7, 2006. Faculty of Agricultural Economic and Rural Sociology, UAF, Faisalabad.

15 Ahmed, H.R. A. Ghafoor, S.I. Hussain, **Saifullah** and M.A. Aziz. 2006. Immobilization treatments affect bioavailability of chromium and lead to rice and wheat. In abstr. International Conference on productivity and growth in agriculture: Strategies and Interventions. Dec 6-7, 2006. Faculty of Agri. Economic and Rural Sociology, UAF, Faisalabad.

16 Akram, M.S., A. Ghafoor, G. Murtaza and **Saifullah**. 2006. Use of brackish water for cotton crop on salt-affected soil. P-44. In Abstr. 11th National Congr. of Soil Sci. "Soil Management for Sustanable Agriculture and the Environment". March 28-31, 2006, NARC, Islamabad.

17 Sabir, M., A. Ghafoor, **Saifullah** and S.I. Hussain. 2006. Metal ion contamination of vegetables receiving raw city effluent. In Abstr. Int. Conf. on Productivity and Growth in Agriculture: Strategies and Interventions. Dec. 2-8, 2006, Univ. Agri., Faisalabad, Pakistan.

18 Ahmad, H.R., A. Ghafoor, S.I. Hussain, **Saifullah** and M.A. Aziz. 2006. Immobilization treatments affect bioavailability of chromium and lead to rice and wheat. In Abstr. Int. Conf. on Productivity and Growth in Agriculture: Strategies and Interventions. Dec. 2-8, 2006, Univ. Agri., Faisalabad, Pakistan.

19 Ahmad, H.R., A. Ghafoor, M.A. Aziz, M.Z. Rehman and **Saifullah**. 2008. Availability and partitioning of Cd, Cr and Pb as affected by soil amendments in salt-affected soils. P. 8. In: Abstr. Int. Conf. “Recent Techniques for Abating Soil and Water Salinity”. 23-24 April, 2008. AARI, Faisalabad, Pakistan.

20 Nadeem, A., A. Ghafoor, **Saifullah**, M.Z. Rehman, M. Sabir and H.R. Ahmad. 2008. Amelioration of saline-sodic soil with brackish using different amendments and rice-wheat crops production. P. 13. In Abstr. Int. Conf. “Recent Techniques for Abating Soil and Water Salinity”. 23-24 April, 2008. AARI, Faisalabad, Pakistan.

21 Nadeem, A., A. Ghafoor, M.Z. Rehman, **Saifullah** and M. Sabir. 2008. Reclamation of saline-sodic soil with different amendments to raise rice-wheat crops using brackish using for irrigation. P.14. In Abstr. Proc. Int. Conf. “Recent Techniques for Abating Soil and Water Salinity”. 23-24 April, 2008. AARI, Faisalabad, Pakistan.

22 Sabir, M., A. Ghafoor, **Saifullah**, M.Z. Rehman and A. Hussain. 2008. Availability response of Ni, Zn, Mn, and Cu from a contaminated soil to incubation time and organic amendments. P. 84. In Abstr. "Achieving Millenium Development Goals Through Wise Soil Management". 12th Cong. Soil Sci. Oct-20-23, 2008, NWFP Agri. Univ., Peshawar, Pakistan.

23 **Saifullah**, A. Ghfoor, M. Sabir, M.Z. Rehman and G. Murtaza. 2008.Effect of organic acidson the growth and uptake of lead by wheat. P. 86. In Abstr. "Achieving Millenium Development Goals Through Wise Soil Management". 12th Cong. Soil Sci. Oct-20-23, 2008, NWFP Agri. Univ., Peshawar, Pakistan.

24 Rehman, M.Z., A. Ghafoor, **Saifullah**, M. Sabir, A. Naeem, H.R. Ahmad and A. Hussain. 2008. Effect of inorganic amendments on the availability of cadmium to grain crops receiving raw sewage for irrigation. P. 88. In Abstr. "Achieving Millenium Development Goals Through Wise Soil Management". 12th Cong. Soil Sci. Oct-20-23, 2008, NWFP Agri. Univ., Peshawar, Pakistan.

25 **Saifullah**, A. Ghafoor, M. Sabir, M.Z. Rehman and G. Murtaza. 2008. Chemically enhanced phyto-extraction of Pb by wheat in texturally different soils. P. 89. In Abstr. "Achieving Millenium Development Goals Through Wise Soil Management". 12th Cong. Soil Sci. Oct-20-23, 2008, NWFP Agri. Univ., Peshawar, Pakistan.

26 Zahir, Z.A., S.S. Akhtar, **Saifullah**, M. Ahmad and M.J. Akhtar. 2010. Mitigating the depressing effect of brackish water on the growth and yield of maize through Microbial ACC-deaminase Biotechnology. In: Abst. Int. Conf. Soil Classification and Reclamation of Degraded Lands in Arid Environments. May 17-19, 2010, Abu Dhabi, UAE.

27 Akhtar, S. S., Z. A. Zahir, **Saifullah**, M. Ahmad and M. J. Akhtar. 2010. Mitigation of the depressing effect of brackish water on maize growth through microbial ACC-deaminase under axenic conditions. p. 160. In: 13th Congress of Soil Science on "Efficient resource management for sustainable agriculture". March 24-27, 2010, Faisalabad-Pakistan.

28 Sadia, B., M. Arshad and **Saifullah**. 2010. Comparative effectiveness of chemical, organic and Biofertilizers for promoting growth and water use efficiency of tomato under water deficit stress. In: Proceedings; National Conference on Pakistan Agriculture; chellanges and opportunities. Rawala Kot, Azad Jammu Kashmir, 29-31 July, 2010.

29 W. Ashraf, **Saifullah**, S. Bibi. 2013. Soil organic carbon sequestration (SOC) under various irrigation and manure application rates. In Proceedings; AgMIP-Pakistan kickoff Workshop and International Seminar on climate change. University of Agriculture, Faisalabad, June 4-6, 2013.

30 M. Imran, S. Bibi, **Saifullah**, M.A. Shah, Z. Aslam, M. Rehman. 2013. Distribution of Nitrate in soil profile and yield of maize (Zea mays L.) crop in response to irrigation. In Proceedings; AgMIP-Pakistan kickoff Workshop and International Seminar on climate change. University of Agriculture, Faisalabad, June 4-6, 2013

REFERENCES

Dr. Manzoor Qadir,
Senior Research Fellow, Dry land Ecosystems
United Nations University Institute for Water, Environment and Health (UNU-INWEH)
175 Longwood Road South, Suite 204
Hamilton, Ontario, CANADA L8P 0A1
Manzoor.Qadir@unu.edu

Dr. Zed Rengel, Winthrope Professor,
School of Earth and Envrionment, University of Western Australia, 35 Stirling Highway, Perth Australia.
Zed.rengel@uwa.edu.au