Dr. Parveen
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Research Interests

Soil Salinity Control and Management: Water quality criteria for irrigation including interactive effects of SAR, EC, pH, mineralogy, and texture and rain on soil stability and infiltration. Management strategies for use of degraded waters for irrigation. Plant response to salinity, specific ion toxicity and interactive effects of multiple abiotic stresses. Management and reclamation of saline and sodic soils for crop production. Modeling of soil chemical processes for multi-component chemical transport codes which include water transport in variably saturated soils and plant water uptake and response to abiotic stress, chemical process of precipitation, ion exchange and adsorption of Se, As, and B and transport in soils.

Academic Qualification

Ph.D.(Soil Science) (2012-2015)
Institute of Soil & Environmental Sciences, University of Agriculture, Faisalabad Pakistan.
Thesis Research Title: Performance of soybean (*glycine max* L.) under saline condition with exogenous application of potassium.

Publications

Research Papers

1. Parveen, Din, M.U, – Anwar-Ul-Haq, M, – Li, D, – Aamer, M, – Al-Khayri,J M,– Al-Dossary, O.M, A Lsubaieb, – Aldaej, M. I, Almaghasla, M. I. 2025. Exogenous Application Of Potassium Mitigates Salt Stress And Enhances Soybean Growth Through Improved Photosynthetic Efficiency, Antioxidant Activities, And Ionic Homeostasis. Applied Ecology and Environmental Research 23(4):6359-6372. http://www.aloki.hu ● ISSN 1589 1623 (Print) ● ISSN 1785 0037 (Online) DOI: http://dx.doi.org/10.15666/aeer/2304_63596372 © 2025, ALÖKI Kft., Budapest, Hungary.
2. Parveen, Muhammad Aftab, Ghulam Sarwar, Muhammad Arif, Aneela Riaz, Safdar Ali, Muhammad Anwar-ul-Haq, Iqra Nawaz. Alleviation Of Salt Stress By Using Potassium Nitrate In Different Genotypes Of Soybean (Glycine Max L.) ISSN: 2076-7897 (Online) / ISSN: 0368-1157

(Print) DOI: https://doi.org/10.58475/2024. J Agric. Res., 2024, www.jar.com.pk Agriculture Department Government of Punjab.

3. **Parveen,** Muhammad Anwar-ul-Haq, Tariq Aziz, Omar Aziz and Leena Maqsood. 2020. Potassium induces carbohydrate accumulation by enhancing morpho-physiological and biochemical attributes in soybean under salinity. 10.1080/03650340.2020.1769075.

4. **Parveen**, Muhammad Anwar-ul-Haq, Javaid Akhtar and Shahzad M.A. 2016. Interactive effect of salinity and potassium on growth, biochemical parameters, protein and oil quality of soybean genotypes. **Pakistan Journal of Agricultural Sciences**.53(1): 69-78.

5. **Parveen**, Muhammad Anwar-ul-Haq, Sajjad Raza, Ghulam Hassan Abbasi, Ahmad Ali and Javaid Akhtar. 2015. Changes in Morphological, Physiological and Chemical Characteristics of Sunflower (Helianthus annuus L.) Genotypes Induced by Salt Stress. International Journal of Plant & Soil Science 4(4): 377-388.

6. Sajjad Raza, Shamsa Kanwal, Tariq Aziz, Ahmad Ali, Parveen, Muhammad Azhar, Sami Ullah Noor, and Abdul Qadeer Wahla. 2014. Growth and yield responses of Chilli (*Capsicum annuum* L.) to exogenously applied L-Tryptophan. International Journal of Modern Agriculture. 3(2) 51-55.

7. Hassan Abbasi, Moazzam Jamil, Anwar Haq, Shafaqat Ali, Rafiq Ahmad, Zafar Malik, **Parveen.** 2016. Salt stress manifestation on plants, mechanism of salt tolerance and potassium role in alleviating it: a review. Zemdirbyste-Agriculture. 103(2): 229–238.

References

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