

## Dr. Dost Muhammad

### Publications

1. Sarmad Iqbal, Ahmad Khan, Gulzar Ahmad, Habib Akbar and Dost Muhammad. 2026. Farmyard manure mineralization: field and laboratory insights into manure placement depth and mulching strategies for sustainable maize production. *Plant Soil*. <https://doi.org/10.1007/s11104-026-08406-w>
2. Ibadullah, D. Muhammad, C. Rosen, M. Mussarat, M.J. Khan, F. Wahid and A. Ali. 2026. Nitrogen and sulphur fertilization effects on maize growth and nutrient uptake in contrasting soils. *Sarhad Journal of Agriculture*, 42(1): 277-289. DOI | <https://dx.doi.org/10.17582/journal.sja/2026/42.1.277.289>
3. SADIGOV, R.A, G.S. MIRZAYEV, F.H. GURBANOVA and D. MUHAMMAD. 2026. DETERMINATION OF DIAGNOSTIC INDICATORS IN ALLUVIAL MEADOW-FOREST SOILS FORMED IN THE SHAMKIRCHAY RESERVOIR BASIN. *SABRAO Journal of Breeding and Genetics*. 58 (1) 463-473, 2026 <http://doi.org/10.54910/sabrao2026.58.1.43> <http://sabraojournal.org/>
4. Bibi, S., M. Mussarat, D. Muhammad, Z. Murad, S.Y. Im, P. Zhuang, I. Khan and A. Rehman. 2025. Enhancing nutrient use efficiency and wheat productivity through application of humic acid and farmyard manure with synthetic fertilizers. *Sarhad Journal of Agriculture*, 41(4): 1980-1995
5. Kashif, Muhammad; Khan, Asad Ali; Ahmed, Iftikhar; Khan, Ahmad; Muhammad, Dost; 2025. Improvement of Chickpea (*Cicer arietinum* L.) Growth and Yield through Phosphorus Sources and Beneficial Microbes. *Plant Animalia*. 4(5):179-193
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9. Sumreen, Sonia, M. Sharif, T. Sultan, D. Muhammad and A. Khan. 2025. Effect of isolated plant growth promoting rhizobacteria on growth and nutrient uptake by maize in acid and alkaline soil conditions. *Pak. J. Bot.*, 57(1): 37-46, 2025. DOI:

[http://dx.doi.org/10.30848/PJB2025-1\(15\)](http://dx.doi.org/10.30848/PJB2025-1(15))

10. Zaryab Khan, Aftab Tabasum, Dost Muhammad , Maria Mussarat , Javaid Hassan. 2024. Comparative Analysis of Soil Phosphorus Determination Methods and Their Correlation with Plant Phosphorus in Standing Wheat Crops. *Turkish Journal of Agriculture - Food Science and Technology*.12(4): 568-574, 2024DOI:<https://doi.org/10.24925/turjaf.v12i4.568-574.639>
11. Sara and Dost Muhammad. 2024. Effects of Organic Amendments and Mineral Fertilizers on Optimizing Nutrient Cycling in Alkaline Soil. *Plant Bulletin*. 3(1):26-35
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