

Dr. Asim Muhammad

RESEARCH PUBLICATIONS:

2025

1. Dawar, K., Khan, A.U., Al-Mutairi, M. Asim M. et al. 2025. Utilizing spent mushroom substrate biochar to improve *Zea mays* L. growth and biochemical resilience against cadmium and chromium toxicity. *Sci Rep* **15**, 17511 (2025). <https://doi.org/10.1038/s41598-025-01617-8>

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2. Khadim Dawar, Atif Dawar, Muhammad Tariq, Ishaq Ahmad Mian, **Asim Muhammad**, Laiba Farid, 2024. Enhancing nitrogen use efficiency and yield of maize (*Zea mays* L.) through Ammonia volatilization mitigation and nitrogen management approaches. *BMC Plant Biology*, 24,74: 1-12.
3. Javed Nawab, Junaid Ghani, Sajid Ullah, Imran Ahmad, Sultan Akbar Jadoon, Shaukat Ali, Emiliya Hamidova, **Asim Muhammad**. 2024. Influence of agro-wastes derived biochar and their composite on reducing the mobility of toxic heavy metals and their bioavailability in industrial contaminated soils. 1-15.

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4. Mahboob ala metal. Effect of chitson on Post-harvest shelf life of persimmon. *Acta. Sci. Pol. Hortorum. Cultus* 22 (2): 27-43. (IF: 0.6).
5. Junaid Ghani, Javed Nawab, Mohammad Eshaq Faiq, SajidUllah, Arshad Alam, Iftikhar Ahmad, Syed Weqas Ali, Sardar Khan, Imran Ahmad, **Asim Muhammad**, Syed AzizUr Rahman. 2023. Multi-geostatistical analyses of the spatial distribution and source apportionment of potentially toxic elements in urban children's park soils in Pakistan: A risk assessment study. Volume 311, Page: 119961.

2022

6. Sajidullah Khan, Abdur Rashid, Asad Ullah, Asim Muhammad. 2022. Effect of different environmental condition on phenology and yield of common bean landraces.18 (12): 333-342.
7. Fakhar and Asim Muhammad. 2022. Micro-nutrient enrichment through foliar application at different stages of chickpea. *Journal of Xi'an Shiyu University, Natural Science Edition*. 8(11): 1168-1180.
8. Junaid Ghani, Javed Nawab, Mohammad Eshaq Faiq, SajidUllah, Arshad Alam, Iftikhar Ahmad, Syed Weqas Ali, Sardar Khan, Imran Ahmad, Asim Muhammad, Syed AzizUr Rahman, Muhammad Abbas, Abdur Rashid, Shah Zaib Hasan, Amir Hamza. 2022. Multi-geostatistical analyses of the spatial distribution and source apportionment of potentially toxic elements in urban children's park soils in Pakistan: A risk assessment study. *Environmental Pollution*. Volume 311, Page: 119961. <https://doi.org/10.1016/j.envpol.2022.119961> (I.F: 9.9)

9. Khan MO, Irfan M, Muhammad A, Ullah I, Ali M, Nawaz S, Khalil MK and Ahmad M. **2022**. A practical and economical strategy to mitigate salinity stress through seed priming. *Front. Environ. Sci.* 10:991977. doi: 10.3389/fenvs.2022.991977 (**I.F: 4.4**)
10. Hazratullah, **Asim Muhammad**, M. Alam, I. Ahmad and A. Jalal. 2022. Role of beneficial microbes with nitrogen and phosphorous levels on canola productivity. *Brazilian Journal of Biology*, 2022, vol. 82, e227703 | <https://doi.org/10.1590/1519-6984.227703> (**IF: 1.65**)
11. Islam Zeb¹, Masood Ahmad¹, Faiza Aman¹, **Asim Muhammad**², Farzana Fatima¹, Habibullah Khan³, Muhammad Younis² and Mehboob Alam¹. 2022. heavy metal analyses of ready to eat leafy vegetables collected from different areas of district swat. *Bioscience Research*, 19(1): 322- 328.

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12. Fahad Noor, Imran Ahmad, Mehboob Alam, Abdullah Jan, Khalid Nawab, Abdullah Jalal Akhtar Zaman, Asim Muhammad, Shahryar Javed, Haider Mukhtar. 2021. Ascorbic acid prolongs the post harvest life of persimmon. *Fresenius Environmental Bulletin*. 30 (06A): 6615-6622. (**IF: 0.5**)
13. Amanullah, M. Yar, Shah Khalid, M. Soliman Elshikh, H. M. Akram, Manzoor, Asim. M et al. 2021. Phenology, growth, productivity, and profitability of mungbean as affected by potassium and organic matter under water stress vs. no water stress conditions. *Journal of Plant Nutrition*. <https://doi.org/10.1080/01904167.2021.1936025> (**I.F: 1.7**)
14. Muhammad Irfan, Farooq Ishaq, Dost Muhammad, Muhammad Jamal Khan, Ishaq, Ahmad Mian, Khadim, Muhammad Dawar, Asim Muhammad, Manzoor Ahmad, Shazma Anwar, Shamsheer Ali, Fahim Ullah Khan, Bushra Khan, Hamida Bibi, Abid Kamal, Maria Musarat, Waheed Ullah, Muhammad Saeed. 2021. Effect of wheat straw derived biochar on the bioavailability of Pb, Cd and Cr using maize as test crop. *Journal of Saudi Chemical Society*. 25 (5): 101232. <https://doi.org/10.1016/j.jscs.2021.101232> (**IF: 3.932**).
15. Sarmad Iqbal, Asim M and Kabir Khan. 2021. Response of Chickpea (*Cicer arietinum* L.) to Different Molbydenum and Boron Levels. *Bioscience Research*. 18(1): 566-573. (**IF: 0.7**)
16. Amanullah, Shah Khalid, Asim Muhammad, Mohammad Yar, Manzoor Ahmad, Hafiz M. Akram, Imran, et al., 2021. Integrated Use of Biofertilizers with Organic and Inorganic Phosphorus Sources Improve Dry Matter Partitioning and Yield of Hybrid Maize. *Communications in Soil Science and Plant Analysis*. 52 (21): 2732-2747
17. Amanullah, Muhammad Ilyas, Haider Nabi, Shah Khalid, Manzoor Ahmad, Asim Muhammad, Saif Ullah, Izhar Ali, Shah Fahad, Muhammad. 2021. Integrated Foliar Nutrients Application Improve Wheat (*Triticum Aestivum* L.) Productivity under Calcareous Soils in Drylands. *Communications in Soil Science and Plant Analysis*. 52 (21): 2748-2766.

18. Muhammad Rizwan, Masood Ahmad, Abdul Mateen Khattak, Asim Mohammad Fawad Ali, Ghulam Nabi Sumbal Ayaz and Noor Ayaz. 2021. Influence of organic potash on the vegetative attributes and corm production of gladiolus cultivars. *BIOSCIENCE RESEARCH*. 18(4):3326-3333.

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19. M. Younis, **Asim. M.** 2020. **Sulphur doses and its application times on yield and oil quality of canola under calcareous soil.** *Grasas Aceites*. 71 (1), e341. <https://doi.org/10.3989/gya.1176182>. **Thomson Reuters / Elsevier/ IF: 1.2**
20. Mehboob Alam, **Asim M.** et al., 2020. The effects of organic amendments on heavy metals bioavailability in mine impacted soil and associated human health risk. *Scientia Horticulturae* 262, 109067. **Thomson Reuters master list / Elsevier/ IF: 1.96**
21. Sahib Alam, Asim M. 2020. carryover of aflatoxin b1 from feed to broilers' tissues and its effect on chicken performance. *Fresenius Environmental Bulletin*. Volume 29 – No. 01/ pages 214-221. **Thomson Reuters master list / Elsevier/ IF: 0.7**
22. Hazratullah, A. Muhammad, M. Alam, I. Ahmad and A. Jalal. 2020. Role of beneficial microbes with nitrogen and phosphorous levels on canola productivity. *Brazilian Journal of Biology*. 82, e227703: 1-11. **(IF: 1.360)**
23. Mehboob Alam, **Asim M.** et al., 2020. Improving okra (*Abelmoschus esculentus* L.) growth and yield by mitigating drought through exogeneous application of salicylic acid. *Fresenius Environmental Bulletin*. Volume 29 – No. 01. pages 529-535. **Thomson Reuters master list / Elsevier/ IF: 0.7.**
24. Asim Muhammad et al., 2020. Management of weeds through planting dates alteration and using selected maize cultivars under changing climate. *Mitteilungen Klosterneuburg Journal*. 70(2): 108-121. **Thomson Reuters / Elsevier/IF: 0.217**
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28. Zeeshan Sharif, Asim Muhammad. 2019. Mitigating Climate Change Effects on Maize Production through Sowing Time Alteration and Hormonal Application. *Bioscience Research*.16(3): 2957-2970. **Thomson Reuters**

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2018

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32. Shazma Anwar, Muhammad Faraz, Said Munir, Muhammad Islam and **Asim Muhammad.** 2018. The effects of phosphorus management on yield and yield components of wheat varieties. *IJAER* (2017); 3(4): 427 – 432.
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34. Misbahullah, Shad. K. **Asim. M.** 2018. Weed Density, Phenology, Tillers and Flag Leaf Area of Wheat Affected by Sorghum Extract Concentration in Combination with Herbicides and Application Time. *Pakistan Journal of Agricultural Research. Pakistan Journal of Agricultural Research*, 31(2): 106-115. DOI. <http://dx.doi.org/10.17582/journal.pjar/2018/31.2.106.115>
35. **Asim M.** et al. 2018. Morpho-physiological changes of *jatropha curcas* leaves cultivated in marginal land under rain fed condition. *ARPJ journal of agricultural and biological science* vol. 13, no. 11: 124-132. ISI master list (**Thomson Reuters**).
36. Muhammad Faheem Jan1, Asad Ali Khan, Asim. M et al. 2018. Response of maize hybrids and associated weeds to integrated potassium application. *Pak. J. Weed Sci. Res.*, 24(4): 399-408.
37. Khan Sher, Ali Hazrat, Muhammad Nisar and Asim Muhammad. 2018. Effects of the root bark extract of *Monothea buxifolia* (FALC.) A. DC on antioxidant potential and seral properties of rabbit (*Oryctolagus cuniculus*). *Pak. J. Weed Sci. Res.*, 24(4): 429-438.
38. Shah Faisal M, Asim. M. et al. 2018. Normal mode analysis of thermophilic cellulase FNCEL5A using elastic network models. *J Proteomics Bioinform* 11: 111 - 109.

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39. **Asim Muhammad et al.** 2017. Management of sulphur and its application stages on canola phenology, maturity and biomass yield under Maize-Canola cropping system. *Bioscience Research*, 14(1): 84-94. **Bioscience Research.(Thomson Reuters, Scopus Index=0.9, SNIP: 0.949, H index=4, IPP=0.55).**
40. Irum Noreen, Arshad Iqbal, Fazl-e-Rabbi, Asim Muhammad, Zamarud Shah and Zia Ur Rahman. 2017. Antimicrobial activity of different solvents

- extracted samples of a weed *Acacia Cyanophylla*. **Pak. J. Weed Sci. Res. 23(1): 79-90. (HEC Recognized Journal).**
41. Vigor and viability of osmoprimed harvested seeds of wheat varieties. 2017. ARPN journal of Agricultural and Biological Sciences. 12 (10): 12 -18. (Thomson Reuters General Master List-2016-2017).
 42. **Asim Muhammad et al. 2017.** Germination and field emergence potential of soybean land races vs improved varieties under different sowing dates. *Pure & Applied Biology Journal*. <http://dx.doi.org/10.19045/bspab.2017.60007>. (**HEC Recognized Journal**).
 43. Amir zaman Khan, **Asim** et al. 2017. Performance of nitrogen fixing bacteria with increasing nitrogen ratios on growth, maturity and biomass of winter wheat varieties. **Bioscience Research**. 14(2): 114-121. (**Thomson Reuters, Scopus Index=0.9, SNIP: 0.949, H index=4, IPP=0.55**).
 44. Tariq shah, **Asim** et al. 2017. Influence of Pre-sowing seed treatments on germination properties and seedling vigour of wheat. *Research in Agricultural & Vet. Sci. Azerbaijan* 1(1):62-70.
 45. Amir Zama. Asim Muhammad. 2017. Influence of seed invigoration techniques on germination and seedling vigor of maize (*ZEA MAYS L.*). *Cercetări Agronomice în Moldova* / 2017. RG IF=0.22, CAB International & others
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 49. Amir Zaman Khan, Imran, Asim Muhammad, Aiman Khalil, Hasina Gul, Habib Akbar and Said Wahab. Impact of fertilizer priming on seed germination behavior and vigor of maize. **Pure and Applied Biology**. <http://dx.doi.org/10.19045/bspab.2016.50093>. (**HEC Recognized Journal**).
 50. Amir Zaman Khan, H. Muhammad, A. Muhammad, S. K. Khalil, Z. Shah and R. Amin. 2016. Phenology, Yield and Nutrient Uptake Efficiency of Wheat as Affected by Organic and Inorganic Nitrogen Fertilizer alone and in Combination with Effective Microorganism. **Middle East Journal of Agriculture. U. A. E.** 5(4): 435-441.

51. Anus Ahmad, Usman Ahmed, Nisar Ahmad, Asim Muhammad. Antioxidant-based Evaluation of Seed Extracts of Two Maize Varieties for Medicinal Purpose. **Proceedings of the Pakistan Academy of Sciences: B. Life and Environmental Sciences** 53 (4): 293–298. (Research Gate Impact factor 0.08) (HEC Recognised Journal)
52. Saad Ullah Khan, Adeela Haroon, Asim Muhammad, et al. 2016. Ethnomedicinal plants used by local inhabitants in the prevention of gastrointestinal problems in low hilly areas of F.R. Bannu, Pakistan. **Pak. J. Weed Sci. Res.**, 22(4): 617-625. (HEC Recognized Journal)
53. Amanullah, Siddique Khan and Asim Muhammad. 2015. Beneficial Microbes and Phosphorus Management Influence Dry Matter Partitioning and Accumulation in Wheat (*Triticum aestivum* L.) With and Without Moisture. **J Microb Biochem Technol, USA.** 7 (6): 40-416. (RG IF: 0.59, H index: 8. SJR: 0.26)
54. Mushraf Khan. Asim Muhammad. 2015. Variability of Vigour and Viability of Various Varieties of Common Bean (*Phaesolus vulgaris* L.) Land Races. **American-Eurasian J. Agric. & Environ. Sci.**, 15 (5): 957-961. (index in Thomson Reuters G. list-2016).
55. Nisar Ahmad, Asim Muhammad, Iqbal Munir, Zamarud Shah and Abdul Basir. 2015. Characterization of Rapeseed Germplasm for Various Quality Parameters. **American- Eurasian J. Agric. & Environ. Sci.**, 15 (12): 2466-2472. (index in Thomson Reuters G. list-2016).
56. Muhammad Ilyas, Muhammad Sayyar Khan, Muhammad Rameez Khan, Khalil Ahmad and Asim Muhammad. 2015. Response of different mutants of *Arabidopsis thaliana* under arsenic stress. **J. Agric. Res.**, 53(3). 375-388. (HEC Recognized Journal)
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60. Amir zaman, Asim Muhammad et al. 2015. Influence of slow release urea fertilizer on growth, yield and N uptake on Maize under calcareous soil condition. **Pure and Applied Biology.** 4 (1): 70-79. (HEC Recognized Journal)
61. Anuar-ul- Haq, Asim Muhammad et al . 2015. Microbiological hazard analysis and exposure assessment of street vended ready-to-eat foods in dhaka city, Bangladesh. **American-Eurasian J. Agric. & Environ. Sci.**, 15 (9): 1725-1731, 2015. (index in Thomson Reuters G. list-2016)

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74. Mushraf, **Asim Muhammad**, Shah Faisal Mohammad and Saddullah Khan. **2013.** Response of maize yield and yield components to different hy
75. dropriming durations in rainfed region of Bannu. **EJournal of Biological Sciences.** 6(1): 12-16.
76. Saad Ullah Khan, Rehman Ullah Khan, Sultan Mehmood, **Asim Muhammad T.Z.**
Bokhari Aziz khan, Ihsan Ullah. **2013.** Medicinally important underground fruit and leafy vegetables of frontier regions of Bannu, Khyber Pakhtunkhwa, Pakistan. **European academic research, International multidisciplinary research journal.** Romania, European Union. 1(7):1613-1623.
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RESEARCH PAPERS (Conferences)

36. Effect of soil amended humic acid and phosphorous levels on wheat yield under irrigated calcareous soil of Peshawar Valley.(Submitted to Emirates Journal of Food and Agriculture, Manuscript Number: EJFA-2016-11-1758). **(Thomson Reuters Index: Impact factor. 0.623)**.
37. Effect of humic acid and phosphorus levels on barley yield and yield components (Submitted to Emirates Journal of Food and Agriculture, Manuscript Number: EJFA- 2016-10-1503). **(Thomson Reuters Index: Impact factor. 0.623)**
38. Analysis of Potato varieties for their Genetic Diversity using Randomly

- Amplified Polymorphic DNA primers' (Submitted to Emirates Journal of Food and Agriculture, Manuscript Number: EJFA-2016-11-1600). (**Thomson Reuters Index: Impact factor. 0.623**).
39. Sajid Ullah, Kamran Khan and Muhammad Asim. Effect of different Osmopriming sources on yield and yield components of winter Wheat. 3rd National conference (UPBG-2013) on "Role of Botanical gardens in Biodiversity conservation and sustainable management" Center of plant Biodiversity, University of Peshawar, Baragali Summer campus, University of Peshawar, June 14-16, 2013.pp: 47.
 40. Kamran Khan, **Asim Muhammad**, Sajid Ullah Khan and Feroz Khan. Effects of planting dates on Mung bean landraces vs improved varieties for stand establishment and growth dynamics. 3rd National conference (UPBG-2013) on "**Role of Botanical gardens in Biodiversity conservation and sustainable management**".Center of plant Biodiversity,University of Peshawar, Baragali Summer campus, University of Peshawar, June 14-16, 2013.pp:41.
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