

Dr. Ijaz Ahmad

A. Papers with Impact Factor

1. Ahmad, K., F. Munsif, S. Ullah, M.A. Mas-ud, I. Ahmad, I. Ahmad, M. Ahmad, M.S. Khan, I.U. Haq, M.A. Haque and M.N. Matin. 2026. Melatonin seed priming enhanced drought tolerance in rapeseed (*Brassica napus* L.). Doi.org/10.1038/s41598-026-56134-z (IF= 4. 9)
2. Khan, A., D. Liu, Z. Jie, N. Ullah, A. Khan, F. Ullah, P. Liu, U. Ibrahimova and I. Ahmad. 2025. Pre-treatment of roots with melatonin triggers a key tolerance mechanism underlying cadmium stress in cotton seedlings. Industrial Crops and Products. 228(2025) 120870 (IF= 5. 6).
3. Khan, Z., S. Khan, M.I. Almansour, M. Asada, M.J. Ansari, H. Khan, I. Ahmad. 2025. Synthetic bacterial communities regulate poly amine metabolism and genes encoding antioxidant defense system to enhance arsenic tolerance of rice. South African J. Bot. 178 (2025) 148- 161 (IF= 3.1).
4. Anas, M, A. Abdullah, M. Taimur, I. Ahmad, S. Khan, M.A. Raza. 2025. Physiological response of common bean (*Phaseolus vulgaris* L.) to salinity stress in Hydroponics. Haya Saudi J. Life Sci. 10(9): 496-502. (IF=6.3)
5. Ahmad, W., Z. Zou, M. Awais, F. Munsif, A. Khan, J. Nepal, M. Ahmad, S. Akber. I. Ahmad, M.S. Khan, Z. Qamar and H. Khan. 2023. Seed-Primed and foliar oxozinc nano-fiber application increased wheat production and Zn biofortification in calcareous-alkaline soil. Agronomy. Doi.org/10.3390/agronomy13020400.
6. Ali, A., T. Shah, G. Haider, M.I. Awan, M. Gohar, F. Munsif and I. Ahmad. 2023. Strigolactone-Mediated oxidative stress alleviation in *Brassica rapa* through upregulating antioxidant system under water deficit conditions. J. Plant Growth Regulation, 42:4675–4687 doi.org/10.1007/s00344-023-10925-0
7. Ahmad, W, J. Nepal, Z. Zou, F. Munsif, A. Khan, I. Ahmad, S. Zaheer, M.S. Khan, S.A. Jadoon and D. Tang. 2023. Biochar particle size coupled with biofertilizer enhances soil carbon nitrogen microbial pools and CO2 sequestration in lentil. Front. Environ. Sci. 11:1114728. doi: 10.3389/fenvs.2023.1114728.
8. Khan. B, M. Arif, F. Munsif, M.M. Anjum, E.W. Gront, A. Khan, I. Ahmad, Y. Ren, C. Zhao, X. Liao, and S. Zhang. 2022. Optimizing sowing window for local and Chinese elite lines under changing climate. Agronomy. Doi.org/10.3390/agronomy12092232. (IF=3.949)

9. Yang, S., L. Wang, K. Akhtar, **I. Ahmad** and A. Khan. 2022. Optimizing nitrogen fertilization and variety for millet grain yield and biomass accumulation in dry regions. Doi.org/10.3390/agronomy12092116. (IF=3.949)
10. Ali, Ali., W. Ahmad, F. Munsif, A. Khan, J. Nepal, Elzbieta W, ójcik-Gront, **I. Ahmad**, M.S. Khan, I. Ullah, S. Akbar, S. Zaheer and G. Jin. 2022. Residual effect of finely-ground biochar inoculated with bio-fertilization impact on productivity in a lentil–maize cropping system. Doi.org/10.3390/agronomy12092036. (IF=3.949)
11. Asim, M., W. Ahmad, Z. Qamar, M. Awais, J. Nepal, **I. Ahmad**. 2022. Seed coating with Zinc oxide nanofiber (Znonf) and urea improved Zinc uptake; recovery efficiency, growth, and yield of bread wheat (*Triticum aestivum* L.) Doi.org/10.1007/s42729-022-00978-7. (IF=2.00).
12. Ahmad. W, A. Baz, M. Zeeshan, **I. Ahmad**, M. Adnan and S. Fahad. 2022. Relative efficiency of biochar particles of different sizes for immobilizing heavy metals and improving soil properties. Crop and Pasture Science. Doi: 10.1017/CP20453 (IF=2.29).
13. Haq, I., Y. Ling, A. Khan, F. Munsif, Z. Tao, S. Deng, A. Khan, **I. Ahmad**, M. Shahid, S. Zaheer, M.Q. Kakar, Q. Huang and Z. Zou. 2021. Nitrogen management and cutting height can wheat grain loss by improving plant growth under dual purpose system. Mitteilungen Klosterneuburg., 71(6): 59-79 (IF=0.106).
14. Gao, H., N. Lia, J. Lia, A. Khan, **I. Ahmad**, Y. Wang, F. Wang and H. Luo. 2020. Improving boll capsule wall, subtending leaves anatomy and photosynthetic capacity can increase seed cotton yield under limited drip irrigation systems. Industrial Crops and Products. 161(2020)113214 (IF=4.2).
15. Munsif, F., S. A. Shah, A. Khan, Z. Afridi, M. Arif, K. Ali, **I. Ahmad**, I. Ullah, F. Wei and D. Tang. 2019. Nitrogen coupled with crop residues improved maize productivity and soil fertility under deep tillage. Mitteilungen Klosterneuburg., 69(9): 13-29 (IF=0.106).
16. **Ahmad, I.**, M. Fida, S.A. Jadoon, A. Zeb, F. Munsif and W. Ahmad. 2020. Diallel analysis for the inheritance study of phytic acid along with morpho-yield traits in bread wheat. African. J. Biotech.19(5): 259-264 (IF=0.57)
17. Mohammad, F., O.S. Abdalla, S. Rajaram, Ala'a Yaljarouka, N.U. Khan, A.Z. Khan, S.K. Khalil, I. H. Khalil, **I. Ahmad** and S.A. Jadoon. 2011. Additive main effect and multiplicative analysis of synthetic-derived bread wheat under varying moisture regimes. Pak. J. Bot., 43(2):1205-1210 (IF= 0.91).
18. Mohammad, F., O.S. Abdalla, S. Rajaram, Ala' A, Yaljarouka, S.K. Khalil, N.U. Khan, I.H. Khalil and **I. Ahmad**. 2010. Yield of synthetic-derived bread wheat under varying moisture regimes. Pak. J. Bot., 42(6): 4103-4112. (IF=0.91).

19. Mohammad, F., **I. Ahmad**, N.U. Khan, K. Maqbool, A. Naz, S. Shaheen and A. Ali. 2011. Comparative study of morphological traits in Wheat and Triticale. Pak. J. Bot., 43(1): 165-170. (IF=0.91)
20. Saeed, B, H. Gul, S. Wahab, Y. Durrani, B. Haleema, M. Ayub, A. Ali, A. Said, and **I. Ahmad**. 2011. Effect of phosphorus and potassium on seed production of Berseem. African. J. Biotech. 10(63):13769-13772. (IF= 0.56).
21. Saeed, B, Y. Durrani, H. Gul, A. Said, S. Wahab, M. Ayub, A. Ali, B. Haleema and **I. Ahmad**. 2011. Forage yield of Berseem (*Trifolium alexandrium*) as affected by phosphorus and potassium fertilization. African. J. Biotech. 10(13):13815-13817 (IF= 0.56).

B. Papers In HEC Recognized Journals

1. Akbar, A, **I. Ahmad**, A. Jehan, I. Ali and M. Haris. 2025. Genetic variability among advanced wheat lines for yield and yield related traits. Sarhad. J. Agric. 41(1): 154-164.
2. Jan., A, I. Ahmad, Y. Khan and S.A. Jadoon. 2023. Performance of various sweet corn genotypes under the Agro-climatic conditions of Nowshera. G.U. J. Phytosci. 03(01): 09-13.
3. **Ahmad. I.**, F. Munsif, W. Ahmad, and S. Akber. 2019. Diversity of Weed Flora of Swabi khwar, Pakistan. Pak. J. Weed Sci. Res. 25(3): 220-209.
4. Fazal. M, M. Zahid, M. Arif, K. Ali and **I. Ahmad**. 2018. Influence of Planting Dates on yield and quality of sugarcane. Sarhad. J. Agric. 34(3): 650-655.
5. **Ahmad. I.**, F. Munsif, W. Ahmad and S. Akber. 2017. Weed flora of Amir Muhammad Khan Campus Mardan, Pakistan. Pak. J. Weed Sci. Res., 23(3): 323-336.
6. Munsif, F., Faryal, M.Z. Afridi, **I. Ahmad**, W. Ahmad, W. Malik and M. Rabnawaz. 2017. Impact of Crop Row orientation on Weed density, biomass and yield of wheat. Pak. J. Weed Sci. Res. 23 (3): 343-350.
7. Ahmad. W, M. Shah, F. Khan, W. Malik, S. Hussain, F. Munsif and **I. Ahmad**. 2016. Comparative effectiveness of Parthenium weed compost on growth and yield of Chili crop. Pak. J. Weed Sci. Res., 22(2): 239-252.
8. Munsif, F., K. Ali, S. Khalid, A. Ali, M. Ali, M. Ahmad, W. Ahmad, **I. Ahmad** and A. Basir. Influence of Row Spacing On Weed Density, Biomass and Yield of Chip Bud Settling of Sugarcane. Pak. J. Weed Sci. Res. 21 (1): 137-144.

9. Ahmad. W, S. Hussain, W. Malik, **I. Ahmad**, M. Ahmad Jadoon, F. Munsif, I. Khan and R.U. Shah. 2015. Parthenium weed compost: an environment friendly way of its control and to harness its allelopathic effect. Pak. J. Weed Sci. Res., 21(4): 505-516.
10. **Ahmad, I.**, F. Mohammad, A. Zeb, I.R. Noorka, Farhatullah, S.A. Jadoon. 2013. Determination and inheritance of phytic acid as marker in diverse genetic group of bread wheat. American. J. Molec. Bio. 3 (1): 158-164.
11. **Ahmad, I.** F. Mohammad and A. Zeb. 2013. Breeding bread wheat for low Phytic acid using full diallel crosses for the study of Phytic acid contents and other important agronomic traits in bread wheat. Sarhad. J. Agric. 29(1):33-42.
12. Azam, S. M., F. Mohammad, **I. Ahmad**, I. H. Khalil, S. A. Jadoon, A. Nasim. 2013. Divergence in F₃ Segregating Bread Wheat Populations. Int. J. Basic. Appl. Sci. 13 (3):94-99.
13. Gul, H, B. Saeed, A. Said, F. Mohammad and **I. Ahmad**. 2011. Influence of late planting dates and planting methods on seed production of clovers. J. Agric. Bio. Sci. (JABS) Asian. Res. Pub Network (ARPN). 6(5): 1-5.
14. Said. A., H. Gul, B. Saeed, **I. Ahmad** and F. Mohammad. 2011. Response of wheat to different planting dates and seeding rates for yield and yield components. J. Agric. Bio. Sci. (ARPN).6(2): 23-25.
15. Ahmad. I., F. Mohammad, N. Khan and A. Zeb. 2010. Breeding of wheat for low Phytate. Int. J. Biotech., 7 (4): 397-401.
16. Ali. K, A. Jan, **I. Ahmad** and F. Mohammad. 2010. Response of Chickpea and its weeds to tillage systems using varying seed rates and phosphorus levels. Pak. J. Weed Sci. Res. 16(3): 97-108.
17. Said. A., **I. Ahmad** and H. Tajir. 2007. Performance of different wheat genotypes under environmental conditions of Peshawar valley. Sarhad. J. Agric. 23(3): 546-548.
18. Gul, H, B. Saeed, A. Said, F. Mohammad and **I. Ahmad**. 2011. Effect of foliar application of nitrogen, potassium and zinc on wheat growth. J. Agric. Bio. Sci. (3): 201-203.
19. Ali. K, S. Shah, A. Basir, S. Khan and **I. Ahmad**. 2007. Performance of different wheat genotypes under environmental conditions of Peshawar valley. Sarhad. J. Agric. 18 (4): 545-548.