

List of Publications

Publications in Impact Factor Journals

1. Anwar Ali Shad, Jehan Bakht, Hamid Ullah Shah, and **Yousaf Hayat**. 2016. Antioxidant activity and nutritional assessment of under-utilized medicinal plants. Pak. J. Pharm. Sci., 29(6): 2039-2045.
2. Shah, M.K., U. Saddique, S. Ahmad, **Y. Hayat**, S.U. Rahman, M.F. Hassan and T. Ali. 2017. Isolation rate and antimicrobial susceptibility profiles of *Mycoplasma mycoides* subspecies capri field isolates from sheep and goats in Pakistan. ELSEVIER, Small Ruminant Research, 153: 118-122.
3. Shafi, M., R. Zaman, J. Bakht, Hamayoon, **Y. Hayat** and S. Shah. 2015. Dry Matter Partitioning and grain yield of wheat as affected by phosphorus and its application methods. Pakistan Journal of Botany, 47(SI): 281-287.
4. Khan, S. A., J.C. Reese, C. Predeesh, M. Murugan and Y. Hayat. 2015. Categories of resistance in wheat to green bug *Schizaphis, Graminum* (RONDANI) through a novel technique direct current electrical penetration graph (DC-EPG). Pakistan Journal of Botany, 47(SI): 307-312.
5. Shaheen, N., M. Hassan, Q. Mahmood and Y. Hayat. (2015). Maternal and fetal blood lead concentrations under non-occupational lead exposure and associated factors in Pakistan. Toxicological & Environmental Chemistry, 1-9: <http://dx.doi.org/10.1080/02772248.2015.1060726>. **IF = 0.825**.
6. **Hayat, Y.**, Yang, J., and Zhu, J. (2015). Mixed model approaches for detecting influential observations in genetic data analysis. Pakistan Journal of Statistics, 31(3): 121-134. **IF = 0.140**.
7. Shahzad, S., S. Hayat, S. Nazir, H. Javed, **Y. Hayat**, M. Amir and A. M. Serat. (2014). Analyzing Data for Grounding a Problem Theory in Software Engineering. Life Science Journal, 11(10s): 61-69. **IF = 0.165**
8. Sabeen, M., Q. Mahmood, M. Irshad, I. Fareed, A. Khan, F. Ullah, J. Hussain, **Y. Hayat** and S. Tabassum. 2013. Cadmium phytoremediation by *Arundo donax* L. from contaminated soil and water. BioMed Research International, Vol. 2013, pp 1-9: <http://dx.doi.org/10.1155/2013/324830>. **IF = 1.579**.
9. Anwar, S., M. Shafi1, J. Bakht, M. T. Jan and **Y. Hayat**. (2011). Response of barley genotypes to salinity stress as alleviated by seed priming. Pak. J. Botany, 43(6): 2687-2691. **IF = 0.947**.

10. Anwar, S., M. Shafi¹, J. Bakht, M. T. Jan and **Y. Hayat**. 2011. Effect of salinity and seed priming on growth and biochemical parameters of different barely genotypes. *African Journal of Biotechnology*, 10(68): 15278-15286. **IF = 0.573.**
11. Shafi, M., J. Bakht, Raziuddin, **Y. Hayat** and G.P. Zhang. (2011). Genotypic difference in the inhibition of photosynthesis and chlorophyll fluorescence by salinity and cadmium stresses in wheat. *Journal of Plant Nutrition*, 34(3): 315-323. **IF = 0.868.**
12. Islam, E., Liu, D., Li, T., Yang, X., Jin, X., Khan, M. A., Mahmood, Q., **Hayat, Y.** and Imtiaz, M. (2011). Effect of Pb toxicity on the growth and physiology of two ecotypes of *Elsholtzia argyi* and its alleviation by Zn. *Journal of Environmental Toxicology*, 26(4): 403-416. **IF = 1.831.**
13. Zhou, H. K., **Hayat, Y.**, Fang, L. J. Guo, R. F., He, J. M. and Xu, H. M. (2010). Analysis of genetic and genotype × environment interaction effects for agronomic traits of rice (*Oryza sativa* L.) in salt tolerance. *Pakistan Journal of Botany*, 42(5): 3239-3246. **IF = 0.947.**
14. Khan, I., Afsheen, S., Din, N., Khattak, S. U. K., Khalil, S. K., **Hayat, Y.** and Lou, Y. (2010). Appraisal of Different Wheat Genotypes against Angoumois Grain Moth, *Sitotroga cerealella* (Oliv.). *Pakistan J. Zool.*, 42(2): 161-168. **IF = 0.338.**
15. Mahmood, Q., Zheng, P., **Hayat, Y.**, Jin, R. C., Azim, M. R., Jilani, G., Islam, E., and Ahmed, M. (2009). Effects of nitrite to sulfide ratios on the performance of anoxic sulfide oxidizing reactor. *The Arabian Journal for Science and Engineering*, 34(1A): 45-54. **IF = 0.385.**
16. Daud, M.K., M.T. Variath, S. Ali, U. Najeeb, M. Jamil, **Y. Hayat**, M. Dawood, M.I. Khan, M. Zaffar, S.A. Cheema, X.H. Tong, and S.J. Zhu. 2009. Cadmium-induced ultramorphological and physiological changes in leaves of two transgenic cotton cultivars and their wild relative. *Journal of Hazardous Materials*, 168(2-3): 614-625. **IF = 2.975 .**
17. Mahmood, Q., **Y. Hayat**, G. Jilani, Z. Hussain, M.R. Azim, and M. Waseem. 2009. Back Propagation Neural Networks to Predict the Performance of Anoxic Sulfide Oxidizing Reactor, *Kuwait Journal of Science and Engineering*, 36(2A) 1-14. **IF = 0.051.**
18. Daud M. K., Sun, Y., Dawood, M., **Hayat, Y.**, Variath, M. T., Wu, Y. X., Raziuddin, Mishkat, U., Salahuddin, Najeeb, U., Zhu, S. (2009). Cadmium-induced functional and ultrastructural alterations in roots of two transgenic cotton cultivars and their distant wild relative. *Journal of Hazardous materials*, 161 (1): 463-473. **IF = 2.975.**
19. **Hayat, Y.**, Yang, J., Xu, H. M., and Zhu, J. (2008). Influence of outliers on QTL mapping for complex traits. *Journal of Zhejiang Univ. Sci. B*, 9(12): 931-937. **IF = 1.679.**
20. Liu, G. F., Yang, J., Xu, H. M., **Hayat, Y.**, and Zhu, J. (2008). Genetic analysis of grain yield conditioned on its component traits in rice (*Oryza sativa* L.). *Australian Journal of Agricultural Research*, 59(2): 189 – 195. **IF = 1.352.**

21. Mahmood, Q., Zheng, P., **Hayat, Y.**, Islam, E., Wu, D. L., and Jin, R. C. (2008). Effect of pH on anoxic sulfide oxidizing reactor performance. *Bioresource Technology*, 99: 3291-3296. **IF = 3.103.**
22. Mahmood, Q., Zheng, P., Wu, D.L., Wang, X. S., **Hayat, Y.**, Islam, E., Hassan, M. J., Jilani, G., and Rashid, M. A. (2007). Prediction of Anoxic Sulfide Biooxidation under various HRTs using Artificial Neural Networks. *Biomedical and Environmental Sciences*, 20: 398-403. **IF = 0.845.**
23. Mahmood, Q., Zheng, P., Cai, J., **Hayat, Y.**, Hassan, M. J., Wu, D.L., and Hu, B. L. (2007). Sources of Sulfide in waste streams and Current Biotechnologies for its removal. *Journal of Zhejiang Univ. Sci. A*, 8(7): 1126-1140, June 2007. **IF = 0.807.**

Publications in National and International Journals

24. Din, I. and **Y. Hayat**. 2021. ANOVA or MANOVA for correlated traits in agricultural experiments. *Sarhad Journal of Agriculture*, 37 (4): 1250-1259.
25. Khan, K., W. Khan, **Y. Hayat**, S. M. Ahmad and K.K. Raza. 2020. A comparative study of students' and teachers' perceptions about english textbooks at intermediate level and their role in promoting students' proficiency in English. *International Journal of English Linguistics*, 10(2): 40-50
26. Ullah, R., K. Nawab, K. Ullah, M. . Z. Khan, **Y. Hayat**, I. Ullah, R. Ullah, A. Nawaz, and S. Malik. 2020. Are personal protective equipment of pesticides use a priority of farmers at the cost of health?. *International Journal of Biosciences*, 16(3): 66-82.
27. Ijaz, M., Q. U. Zaman, **Y. Hayat** and Z. Zaheer. 2020. Bayesian estimation of the parameter of Exponential distribution under Jeffery prior. *Advances and Applications in Statistics*, 60 (2): 189-199.
28. Ijaz, M., A. U. Khan, S. M. Asim, **Y. Hayat**, S. H. Shah, M. Farooq, K. Ali, Neelam and S. Zubair. 2020. A new ratio type estimator to estimate the population mean using auxiliary information. 2020. *Advances and Applications in Statistics*, 63 (1): 97-108.
29. Anam Sarwar, Sumera Afsheen, Syed Shakeel Shah, Sabila Afzal, Ahmed Zia, Inamullah Khan and **Yousaf Hayat**. 2019. Potential of plant oils against *Callosobruchus maculatus* (Coleoptera; Bruchidae) on stored mung bean (*Vigna radiata*). *Asian Journal of Agriculture and Biology*, 7(2): 204-209.

30. Khan, N. U., A. Zalan, A. Petruzzello, I. U. Din, F. Haq and **Y. Hayat**. 2018. Determining the Actual Prevalence of Hepatitis B in Khyber Pakhtunkhwa-Pakistan: A Meta-Analysis. *The Open Virology Journal*, 12, (Suppl-1, M4) 33-41.
31. Fayaz, M., A. Jan, D. Jan, G. Ali and **Y. Hayat**. 2016. Does the quantity and quality of cereal respond to changes in income? Evidence from Pakistan. *Sarhad Journal of Agriculture*, 32(3): 177-183.
32. Shahzada, G., U. A. Khan, S. R. Ghazi and **Y. Hayat**. 2015. Gender differences in self-estimated multiple intelligence among secondary school students. *Pakistan Journal of Psychological Research*, 30(1): 81-94.
33. Jan, A., D. Jan, **Y. Hayat**, A. Sadiqa, G. Ali and M. Fayaz. 2014. Logarithmic transformation: A tool for normalizing residuals in ANOVA models. *Sarhad Journal of Agriculture*, 30(3): 375-378.
34. **Hayat, Y.**, W. Ali, S. Hayat, A. U. Rahman, S. Shahzad and Z. Hussain. 2013. Studying behavior attributes and student's academic performance. *Sarhad Journal of Agriculture*, 29(3): 461-467.
35. Ali, L., M. Shah, A. Ullah, I. Alam, A. Jan, **Y. Hayat**, M. Ibrar, G. Ali. 2013. An assessment of livelihood attainment through local handicraft in district Swat, Pakistan. *Journal of Society and Communication*, Vol. 2013: 200-219.
36. Iqbal, M., Zaman, Q. and **Hayat, Y.** 2012. Determinants of Smoking Behavior among the University Students. *PUTAJ, University of Peshawar*, 20: 117-125.
37. Rafiq, A., F.A. Jan, **Y. Hayat**, and M. Fayyaz. 2012. An analysis of technical, vocational and commercial education contribution towards faculty satisfaction in terms of academic and professional development. *Sarhad Journal of Agriculture*, 28(2): 365-371.
38. Rahman, A. U., **Y. Hayat**, S. Hayat, Q. Zaman, M. Iqbal and A. Rahman. 2012. Impact of outliers on the socio-economic factors affecting education. *Sarhad Journal of Agriculture*, 28(1): 109-114.
39. Zeb, Q., I. Khan, M. Inayatullah, **Y. Hayat**, A.U.R. Saljoqi and M. A. Khan. 2011. Population dynamics of citrus whiteflies, aphids, citrus psylla leaf miner and their biocontrol agents in Khyber Pakhtunkhwa. *Sarhad Journal of Agriculture*, 27(3): 451-457.
40. Rahman, A. U., **Y. Hayat**, Z. Habib and J. Iqbal. 2011. Rural-urban disparities in Khyber Pakhtunkhwa, Pakistan. *Sarhad Journal of Agriculture*, 27(3): 477-483. **Citation = 5.**
41. Hussain, Z., Z. Mahmood and **Y. Hayat**. (2011). Modelling the daily rainfall amounts of N-west Pakistan for agricultural planning. *Sarhad Journal of Agriculture*, 27(2): 313-321.

42. Zaman, Q. **Hayat, Y.**, Suhail, S. M Khan, M. and Shah, S. W. (2009). Small and large sample performance of Kaplan- Meier and Shrunken Kaplan-Meier survival functions. *Sarhad J. Agric.* 25 (4): 181-190.
43. Liu, G. F., Zhou, H. K., Hu, H., Zhu, Z. H., **Hayat, Y.**, Xu, H. M., and Yang, J. (2007). Genetic analysis for brix weight per stool and its component traits in sugarcane (*Saccharum officinarum*). *Journal of Zhejiang Univ. Sci. B*, 8(12):860-866.
44. **Hayat, Y.**, Salahuddin, Mahmood, Q., Islam, E., and Yang, J. (2007). Comparative studies of outliers based on statistical methods to evaluate and select the optimum regression model for fertilizers utilization. *Scientific Research Monthly*, 3:81-84, 100. (International Journal). Hong Kong, China.
45. Khan, S. A., Hussain, N., Ullah, F. and **Hayat, Y.** (2007). Screening of wheat genotypes for resistance against cereal aphids. *Sarhad J. Agric.* 23(2): 427-434.
46. Khan, S. A., Ullah, F., Hussain, N., **Hayat, Y.**, and Sattar, S. (2007). Natural enemies of cereal aphids in North West Frontier Province (NWFP) Pakistan. *Sarhad J. Agric.* 23(2): 435-439.
47. Mahmood, Q., Wu, D. L., Qureshi, A.S., Khan, M.R., **Hayat, Y.**, Jilani, G., Shamsi, I.H., Tajammul, M. A., and Daud, M. K. (2006). Heterosis, Correlation and Path Analysis of Morphological and Biochemical Characters in Wheat (*Triticum aestivum* L. emp. Thell). *Agricultural Journal* 1(3): 180-185.
48. Shamsi, I. H., Jilani, G., Marwat, K. B., Mahmood, Q., Khalid, S., and **Hayat, Y.** (2006). Response of Poaceous Weeds in Wheat to Post-Emergence Herbicides. *Caspian J. Env. Sci.* 4(1): 9-16.
49. Zaman, Q., Salahuddin, **Hayat, Y.**, Azam, M., and Strasak, A. M. (2006). Statistical analysis of risk factors associated with Beta-thalassemia. *Acta Informatica Medica* 14(4): 191-194.
50. Khan, S. A., Hussain, N., Saljoqi, A. U. R., and **Hayat, Y.** (2006). Resistance of the maize variety Jalal against corn leaf aphid *Rhopalosiphum Maidis*, its impact on pest density and effects on yield and yield components. *Journal of Agric. and Biol. Sci.* 1(2): 30-34.
51. Khan, S. A., Ullah, F., Hussain, N., Saljoqi, A. U. R., **Hayat, Y.**, and Sattar, S. (2006). Distribution pattern of the cereal aphids in the wheat growing areas of the North West Frontier Province (NWFP) of Pakistan. *Sarhad J. Agric.* 22(4): 655-659.
52. **Hayat, Y.**, and Salahuddin. (2005). Socio-economic factors and demand of various fertilizers in district Peshawar. *Int. J. Biol. Biotech.* 2(1): 215-221.
53. Mahmood, Q., Zheng, P., Rehan, S. M., Islam, E., Rashid, M. A., and **Hayat, Y.** (2005). Anatomical studies on water hyacinth (*Eichhornia Crassipes* (Mart.) Solms) under the influence of textile wastewater. *Journal of Zhejiang Univ. Sci. B* 6(10). 991-998.

54. Mahmood, Q., Qureshi, A. S., Khan, M. R., Tajammul, M. A., and **Hayat, Y.** (2005). Genetic variability, heterosis, character correlation and path analysis of yield components in wheat (*Triticum aestivum* L. emp. Thell). *Int. J. Biol. Biotech.* 2(4): 995-999.
55. Mahmood, Q., Zheng, P., Islam, E., **Hayat, Y.**, Hassan, J., Jilani, G., and Jin, R. C. (2005). Lab scale studies on water hyacinth (*Eichhornia crassipes* Marts Solms) for biotreatment of textile wastewater. *Caspian J. Env. Sci.* 3(2): 83-88.
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57. **Hayat, Y.**, Zaman, Q. and Suhail, S. M. (2003). Choice of using appropriate statistical techniques in data analysis. *Pakistan Journal of Applied Sciences*, 3(4): 231-235.
58. **Hayat, Y.**, Asim, S. M., Zaman, Q. and Khan, N. (2003). All possible regression study of wheat crop. *Pakistan Journal of Applied Sciences*, 3(4): 236-239.
59. **Hayat, Y.**, Salahuddin and Marwat, K. B. (2003). Statistical analysis of nitrogenous (N) fertilizers demand in N-west Pakistan. *Poljoprivreda I šumarstvo Podgorica* (Agriculture and Forestry), 49(3-4): 5-15.
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61. Shah, S., Khan, S., Muhammad, Z., **Hayat, Y.**, and Arif, M. (2001). Effect of different row spacing and orientations on the performance of Maize. *Sarhad J. Agric.*, 17(4): 515-517.