

Professor Dr. HAMAYOON KHAN

Research Publications: (57 Publications in Peer Reviewed HEC recognized/Refereed Journals)

Impact Factor Publications

1. Farzana Gul, Muhammad Hamayun, Anwar Hussain and Hamayoon Khan. 2019. A promising growth promoting meyerozyma caribbica from solanum xanthocarpum alleviated stress in maize plants. Bioscience repots, 39, 1-15.
2. Mitigating climate change effects on maize production through sowing time alteration and hormonal application. 2019.
3. Nausheen Ameer, Ghulam Mustafa, Imran Khan and **Hamayoon Khan**. 2018. Chemical Senses: Promising Tools for the Online Monitoring of Flourides. Research Review. Flourides 51(3) 252-266.
4. Rozina Gul , **Hamayoon Khan** , Shahenshah, Naqib Ullah Khan , Noreen Asim, Abdul Latif and Ko Harada. 2018. Characterization for Nodulation and Detection of Duplicate Gene Action of Dominant Epistasis Controlling Root Nodulation in Chickpea (*Cicer arietinum*). Int. J. Agric. Biol., 20: 683–688
5. Surraya Shahab, Ghulam Mustafa, Imran Khan and **Hamayoon Khan**. 2017. Effects of Flourides Ion Toxicity on Animals, Plants and Soil Health. Research Review. Flouride 50(4) 393-408
6. **Hamayoon Khan**, Rozina Gul and Naqib Ullah Khan. 2017. Appraisal of interaction among nipping and chickpea (*cicer arietinum* IF.) Genotypes and their correlated response for grain yield. The JAPS., 27(4) 1295-1302.
7. Gul, M. Saeed, H. Khan, **Hamayoon Khan**, M. I. Khan and I. Khan. 2017. Impact of water hyacinth and water lettuce aqueous extracts on growth and germination of wheat and its associated troublesome weeds. Journal of Applied Ecology and Environmental Research. 15(3): 939-950.
8. Zafrullah Khan, Shah Alam Khan, **Hamayoon Khan**, Naeem Khan, Khwaja Junaid and Inamullah Khan (2017). Seven Local Commercial Wheat Cultivars Tested for Resistance against *Rhopalosiphum padi* L. in Pakistan. Pak. J. Zool., vol. 49(3), 793-799
9. Anum Aslam, Sofia Khalid, **Hamayoon Khan** and M. N. Ahamd. 2016. Determination of fluoride concentration in tooth pastes and mouth washes marketed in Rawalpindi by ion selective electrode method. Fluoride J. (Accepted for Publication)
10. Khan, I.A., G. Hassan, N. Malik, R. Khan, **Hamayoon Khan** and S.A. Khan. 2016. Effect of herbicides on yield and yield components of hybrid maize (*Zea mays*). 2016. Planta Daninha, Volume 36(4): 21-25.

11. A.U. Haq, N.U. Khan, H. Raza, S. Gul, S. Akbar, S.U. Khan, S. Muhammad, M. Ali1, **H. Khan** and S.M. Khan (2017). Genetic attributes of f3 populations and their parental lines in upland cotton. *The JAPS*, 27(2), 655-666
12. Shahan shah, Ghufuran ghani , **Hamayoon khan** , Muhammad arif , Abdul qahar , Inamullah , Asad ali and Musharaf ahmad (2015). Response of maize cultivars to phosphorus and zinc nutrition. *Pak. J. Bot.*, 47(SI): 289-292
13. Rozina Gul, **Hamayoon Khan**, Arif Khan and Naquibullah khan. (2014). Characterization of chickpea germplasm for nodulation and effect of rhizobium inoculation on nodules number and seed yield. *The Journal of Animal & Plant Sciences*, 24(5):1421-1429
14. Rozina Gul, **Hamayoon Khan** and Naqibullah khan. (2014). Genetic linkage effect on inheritance of nodulation and leaf color in chickpea (*Cicerarietinum L.*). *SABRAO Journal of Breeding and Genetics* 46 (1) 89-98.
15. Farhan Ali, Rozina Gul, **Hamayoon Khan**, HidayatUllah. (2013). Heterosis and early generation testing is a pivotal method for production of hybrid. *Australian Journal of Crop Science*, 7(11):1728-1736
16. RozinaGul, **Hamayoon Khan** and Maryam Bibi. (2013). Genetic analysis and interrelationship of yield and yield attributing traits in chickpea (*Cicerarietinum L.*). *The Journal of Animal & Plant Sciences*, 23(2): 2013, Page: 521-526.
17. **Hamayoon Khan**, Naoto Matsue and TeruoHenmi. (2006). Adsorption of Water on nano-ball allophane. *Journal of Clay Science Japan*, 12 (2): 261-266.
18. **Hamayoon Khan**, Naoto Matsue and TeruoHenmi. (2006). Adsorption of water on nano-ball allophane as affected by heat treatment. *Journal of Clay Science Japan*, 13 (2): 43-50.
19. Rozina K., **Hamayoon Khan**, K. Harada. 2010. Evaluation of microsatellite markers to discriminate induced mutation lines, hybrid lines and cultigens in chickpea (*Cicerarietinum L.*). *Aust. J. crop Sci*, 4(5),301-308
20. Rozina. H., **Hamayoon Khan**, Shahenshah, L. Naz, I. Munir, M.Arif, I.A. Khalil, and A.Z. Khan. 2011. Performance of chickpea genotypes under two different environmental conditions. *Afr. J. Biotechnol.*, 10(9),1534-1544
21. Rozina G., **Hamayoon Khan**, M. Bibi, Q.U. Ain, B. Imran. 2013. Genetic analysis and interrelationship of yield attributibg traits in chickpea (*Cicerarietinum L.*). *The J. An. & Pl. Sci.*, 23(2): 2013: 521-526
22. **Hamayoon Khan**, Amir Z. Khan, P.shah, F. Mohd, Amanullah, S.Perveen, S.Nigar, S.K. Khalil and M. Zubair. (2010). Vigor test used to rank seed lot quality and predict field emergence in wheat. *Pak. J. Bot.*, 42(5): 3147-3155.
23. **Hamayoon Khan**, Amir Z. Khan, R. Khan, S. Nigar, B. Saeed, H. Gul, Amanullah, S. Wahab, A. Muhammad, M. Ayub, N. Matsue and T. Henmi. (2011). Morphology and Yield of Soybean grown on Allophanic Soil as Influenced by synthetic Zeolite Application. *Pak.J.Bot.* 43(4): 2099-210.

24. **Hamayoon Khan**, Amir Z. Khan, P. Shah, S. Nigar, S. Perveen, M.K. Shah, Amanullah, S. K. Khalil, S. Munir and M. Zubair (2011). Seed Quality and Vigor of Soybean Cultivars as Influenced by Canopy Temperature. *Pak. J. Bot.*, 43(1): 643-648.
25. **Hamayoon Khan**, M.Shafi, JehanBakht, Satta Ali, M. Aman Khan, and M. Sharif. 2012. Effect of planting density on phenology, growth and yield of maize(*Zea mays* L.). *Pak. J. Bot.*, 44(2), 691-696.
26. Shad K.K., F. Khan, A. Rehman, F. Muhammad, Amanullah, A.z. Khan, S. Wahab and **Hamayoon Khan**. 2011. Dual purpose wheat for forage and grain yield in response to cutting, seed rate and nitrogen. *Pak. J. Bot.*, 43(2); 937-947.
27. Amanullah, S. Shah and **Hamayoon Khan**. 2014. Effect of variable nitrogen sources and rate on leaf area index and total dry matter accumulation in maize *Zea mays* L., genotypes under calcareous soils. *Turkish Journal of field Crops*. 19(2):276-284.
28. Khan S.A, J. C. Reese, Predeesh C, Murugan. M Hayat. Y and **Hamayoon Khan**. Categories of resistance in wheat to green bug schizaphisgraminis (rondani) through a novel technique direct current electrical penetration graph (DC-EPG). Accepted for publication in *Pakistan Journal of Botany*.

National and International Publications/ (HEC Recognized)

1. Naimat Ullah , Asim Muhammad , Habib Ullah Marwat , **Hamayoon Khan** and Muhammad Subhan (2017). Vigour and viability of osmoprimed harvested seeds of wheat varieties. *Journal of Agricultural and Biological Science*, 12 (1), 12-18
2. Asim Muhammad, Inamullah, **Hamayoon Khan** and Muhammad Arif (2017). Germination and field emergence potential of soybean land races vs improved varieties under different sowing dates. *Pure Appl. Biol.*, <http://dx.doi.org/10.19045/bspab.2017.60007>
3. Fayaz Ahmed and **Hamayoon Khan**. 2016. Effect of different fertilizer treatments on the performance of some local rice varieties under SRI (system of rice intensification) and conventional management practices in district Swat. *Pure Applied Biology.*, 5(1): 37-47
4. Soshma Jan, Rozina Gul, Fahim Ullah Khan, **Hamayun Khan** and Sana Saeed. 2015. Interrelationships among yield and yield components in chickpea (*Cicer arietinum* L.) under irrigated and rainfed conditions. *Pure Appl. Biol.* 4(4): 551-556
5. **Hamayoon Khan**, M. Arif, R. Gul and K. Naveed. 2001. The Residual effect of groundnut crop and soil amendments on the performance of gram under rain fed condition. *Sarhad J. Agric.* Vol. 17(4). 525-531
6. **Hamayoon Khan**, M. Arif, R. Gul, N. Ahmad and I. A. Khan. 2002. Effects of sowing dates on maize cultivars. *Sarhad J. Agric.* Vol. 18(1):159-163.
7. Rozina G., **Hamayoon Khan**, S. Sattar, Farhatullah, F. Munsif, Shadman S. A. K. Bangash and S. H. Khattak. 2011. Comparison among nodulated and non-nodulated chickpea genotypes. *Sarhad J. Agri.*, 27(2): 577-581.
8. Rozina G., **Hamayoon Khan**, G. Mairag, S. Ali, Farhatullah and Ikramullah. 2007. Correlation Study on Morphological and Yield Parameters of Mungbean (*Vigna radiata*). *Sarhad J. Agric.* 24(1): 37-42.

9. Rozina K., Farhatullah and Hamayoon Khan. 2011. Dissection of variability and heritability estimates of chickpea germplasm for various morphological markers and quantitative traits. *Sarhad J. Agric.* 27(1): 67-72.
10. Mohsin R., Hamayoon Khan, F. Karim and M. J. Tahir 2003. Nitrogen use efficiency as affected by time of application in rice (IRRI-6). *Sarhad j. Agric.* Vol. 19, No.4.
11. Mohsin R., Hamayoon Khan M.J. Tahir, M. Hussain and Shahenshah. 2004. Effect of different combinations of NPK on growth and yield of seed cotton varieties CIM-443. *Sarhad J. Agric.* 20(1):1-4.
12. B. Ahmad, Mohammad, Hamayoon Khan, and S.Z. Iqbal 1999. Seed production and yield component as effected by ade, size, and spacing of steckling in turnip (brassica Rapa L.). *Sarhad J. Agric.* Vol. 15 (5).
13. B. Ahmad, I. Mohammad, M. shafi, H. Akbar, Hamayoon Khan, and A. Razaq (1999). Effect of row spacing on the yield and yield components of wheat (cultivar, Bakhtawar-92). *Sarhad j. Agric.* Vol. 15 (2).
14. Tariq M., R. Gul, F. Munsif, F. Jalal, Z. Hussain, N. Noreen, Hamayoon Khan, Nasiruddin and H. Khan. 2011. Effect of phosphorus levels on yield and yield components of maize. *Sarhad J. Agric.* 27(2): 167-170.
15. Saifullah, A. Jan, F. Munsif, M. Arif, Hamayoon Khan, K. Ali, M. Waqas and A. Ali. 2011. Performance of millet varieties under different irrigation levels. *Sarhad J. Agric.* 27(1): 1-7.
16. Muhammad A., Ihsanullah, S. Khan, F. Ghani and Hamayoon Khan (2001). Response of maize varieties to different planting methods. *Sarhad J. Agric.* Vol. 17 (2); 159-163.
17. Habib A., Siraj-ud-Din, M. shafi, J. Bakht, B. Ahmad and Hamayoon Khan (2000). Yield and yield components of wheat and gram planted in monoculture and in combination at different row directions and crop geometry. *Sarhad J. Agric.* Vol. 16 (3).
18. Fida M., H. Daniel, K. Shahzad and Hamayoon Khan (2001). Heritability estimations for yield and its components in wheat. *Sarhad J. Agric.* Vol 17 (2).
19. Fazal H. T., A.Z. Khan, J. M. Khan, S. K. Khalil and Hamayoon Khan (2002). Field performance of maiz planted at different seeding depth and seed size. *Pak. J. seed tech.*, 1(2).
20. Hamayoon Khan, N. Matsue and T. Henmi (2007). Adsorption of Water on Nano-Ball Allophane as Affected by Dry Grinding. *Int. J. Soil Sci.*, 2 (4): 247-257.
21. Amir Z. K., Hamayoon Khan, R. Khan, A. Ghoneim and A. Ebid. 2007. Seed Development Profile of Soybean as Influenced by Planting Dates and Cultivars under Temperate Environment. *Am. J. Plt. Phys.* 2(4):251-260.
22. Amir Z. K., Hamayoon Khan and R. Khan. (2007). Influence of Canopy Temperature on Physio-Chemical Quality of soybean. *Research Journal of Botany*, 2 (4) 202-207.
23. Amir Z. K., Hamayoon Khan, A. Ghoneim, R. Khan and A. Ebid. 2007. Seed Quality and Vigor of Soybean as Influenced by Planting Dates, Density and Cultivar under Temperate Environment. *Int. J. of Agric. Res.* 2 (4): 368-376.
24. Amir Zaman Khan, Hamayoon Khan, R. Khan and A. Ghoneim and A. Ebid. 2007. Comparison of Different Wheat Seed Categories (VS) Farmer' seed: Yield and Yield Components. *Trends in Appl. Sci. Res.* 2(6):529-534,
25. Hamayoon Khan, A. Z. Khan, R. Khan, N. Matsu and T. Henmi. 2008. Zeolite Application Affects Vegetative Phenology of determinate and indeterminate soybean grown on Allophanic soil. *Int. J. Agric. Res.* 3(2): 148-154.
26. Hamayoon Khan, A. Z. Khan, R. Khan, N. Matsu and T. Henmi. 2008. Water adsorption and surface acidity of nano-ball Allophane as affected by heat treatment. *J. Env. Sci. & tech.* 2 (1): 22-30.

27. **Hamayoon Khan**, A. Z. Khan, R. Khan, N. Matsu and T. Henmi. 2008. Soybean Leaf Area, Plant height and Reproductive Development as influenced by Zeolite Application and Allophanic Soil. *J. plit Sci.* 3(4): 277-286.
28. **Hamayoon Khan**, A. Z. Khan, R. Khan, N. Matsu and T. Henmi. 2009. Influence of Zeolite Application on Germination and Seed Quality of Soybean grown on Allophanic soil. *Res. J. Seed Sci.* 2(1):1-8
29. RozinaGul, Sajid Ali, **Hamayoon Khan**, Nazia, Farhan Ali and Imran Ali. 2007. Variability among Mungbean (*vigna radiate*) Genotypes for yield and Yield Components Grown in Peshawar Valley. *J. Agric. Bio. Sci.* 1 (4):6-9.