

Publications of Dr. M. Bilal Chattha

1. Afzal, M., A.A. Chattha, F. Ahmed, G. Mustafa and **M. Bilal**. **2004**. A medium maturing cane variety SPF-245 for Punjab province. **Pak. Sugar J.** XIX (06): 22-24.
2. Afzal, M., A. A. Chattha, **M. Bilal** and M. Umer. **2007**. Advanced sugarcane production technology. **Pak. Sugar J.** XXII (1): 29-36.
3. Chattha, M. U., A. Ali and **M. Bilal**. **2007**. Influence of planting techniques on growth and yield of spring planted sugarcane (*Saccharum officinarum L.*). **Pak. J. Agri. Sci.**, 44 (3): 452-455.
4. Aslam, M.A. Hameed, A.A. Chattha, **M. Bilal** and M. Umer. **2007**. Role of dry hoeing and 1st irrigation in determining weed bio-mass and yield of pre-sown sugarcane for two successive years. **Pak. Sugar J.** XXII (01): 92-96.
5. Hussain, F. M.A. Sarwar, M. Azhar Munir, M. Umer, A. A. Chattha, **M. Bilal** and M. Yasin. **2008**. Role of cane varieties in sugar industry and gur making. **J. Agric. Res.** 46 (2) 171-175.
6. Sarwar, M.A., F. Hussain, A. Ghaffar, M.A. Nadeem, M.M. Ahmad, **M. Bilal**, A.A. Chattha and M. Sarwar, **2008**. Post-harvest studies in sugarbeet (*Beta vulgaris*). **J. Agri. Soc. Sci.**,4:89-91
7. Sarwar, M.A., F. Hussain, M.A. Nadeem, A.Ghaffar, **M. Bilal**, M. Umer and A.A. Chattha **2009**. Performance of different Sugarcane strains for Physico-Chemical characteristics of Jaggery. **J. Agri. Soc. Sci.**,5(1-2):40-42.
8. Sarwar, M.A., F. Hussain, M. Umer, **M. Bilal**, A. Nadeem and A.A. Chattha.**2009**. Comparative efficiency of solid and liquid fertilizers in sugarcane. **Pak. Sugar J.** XXIV (1):6-9.
9. **Chattha, M.B.**, M. Maqsood, A.A. Chattha and M.A. Muddasir. **2010**. Effect of earthing up and fertilizer levels on growth and yield of spring planted sugarcane (*Saccharum officinarum L.*). **J. Agric. Res.** 48(3):327-334.
10. Hassan, I., **M.B. Chattha**, T. H. Chattha and M.A. Ali **2010**. Factors affecting wheat yield. A case study of mixed crops zone of the Punjab. **J. Agric. Res.** 48(3):403-408
11. Sarwar, M.A., N. Fiaz, **M.B. Chattha**, S. Ahmad, M.A. Munir, M.A. Ali, S.A.H. Bukhari and A.A. Chattha. **2011**. Cane juice quality variation at different sampling locations. **Mycopath.**9 (2):73-77.
12. Sarwar, M.A., **M.B. Chattha**, N. Fiaz, S. Ahmad, M.A. Munir, M.A. Ali, S.A.H. Bukhari and A.A. Chattha. **2012**. Response of sugarcane to some commercial fertilizers. **Mycopath.**10 (1):9-11.
13. Mahmood, N., T. Ali, M.S. Bajwa, M. Shahbaz and **M.B. Chattha**. **2013**. Analysis of the adoption of wheat sowing recommendations among small farmers using water saving interventions. **J. Anim. Plant Sci.** 23(1): 309-312. **(I.F. 0.638)**

14. Mahmood A., J. Iqbal, **M.B. Chattha** and S. Azhar **2013**. Evaluation of various herbicides for controlling grassy weeds in wheat. **Mycopath.**11 (1):39-44
15. Anwar, S.A., S. Riaz, C. A. Ahmad, M. N. Subhani and **M.B. Chattha 2013**. Mycoflora associated with stored seeds of soybean. **Mycopath.** 11(2): 85-90
16. Subhani. M.N., S.T. Sahi, M. Safdar, N. Munir, Waseem Abbas and **M. Bilal. 2014**. Evaluation of antifungal effect of different plant extracts for the management of late blight of Potato caused by *Phytophthora infestans* (Mont.) de Bary. **J. Biologically Active Products from Nature.** 4(2):125-135
17. Nawaz, H., N. Hussain, A. Yasmeen, M. Arif, M. Hussain, M.I.A. Rehmani, **M.B. Chattha and A. Ahmad. 2015**. Soil applied zinc ensures high production and net returns of divergent wheat cultivars. **J. Environ Agric. Sci.** 2(1)1-7
18. Manzoor, S.A. S.N. Mirza, M. Zubair, W. Nouman, S.B. Hussain, S. Mehmood, A. Irshad, N. Sarwar, A. Ammar, M.F. Iqbal, A. Asim, M.U. Chattha, **M.B. Chattha**, A.Zafar and R. Abid. 2015. Estimating genetic potential of biofuel forest hardwoods to withstand metal toxicity in industrial effluent under dry tropical conditions. **Genet. Mol. Res.** 14(3):9543-9554. (**I.F. 0.85**)
19. Nawaz, M., S. Khan, M.U. Chattha, M. Khan, and **M. Bilal. 2015**. Interactive effect of sowing techniques and weed crop competition periods on the performance of spring planted sugarcane (*Saccharum officinarum L.*). **Int. J. Mod. Agric.** 4(3):49-51
20. Habib, A., A. Mahmood, W. R. Arshad, M. Umer, **M. Bilal**, F. Rasul, I.U. Haq and M. Usman. **2016**. Crop losses and varietal response of sugarcane against red rot disease in Pakistan's Punjab province. **Int. Sugar J.** 274-279 (**I.F. 0.181**)
21. **Bilal, M.**, M. Umer, I. Khan, H. Munir, A. Ahmad, M. Usman and R. Iqbal. **2016**. Interactive effect of phosphorous and humic acid on growth, yield and related attributes of maize. **J. Agric. Res.**54(3):433-445
22. Ashfaq, M., M. Rizwan, A. Rashid, M. Akhtar, F. Khan, M. Ali, **M.B. Chattha**, M. Sajjad and U. Mubashar. **2016**. Disease response of exotic rice genotypes against bacterial leaf blight and its effect on various morphological traits. **Pak. J. Phytopathol.**, 28 (2): 269-274
23. Nawaz, M., M.U. Chattha, **M.B. Chattha**, H. Munir and R. Ahmad. **2016**. Sugarcane processing by-product compost supplemented with inorganic fertilizers improve the growth, yield and quality of spring planted sugarcane (*Saccharum officinarum L.*) **J. Agric. Res.** 54(4):631-645
24. Chattha, M.U., M.U. Hassan, I. Khan, **M.B. Chattha**, I. Ashraf, W. Ishaque, M.U. Farooq, M. Usman and M. Kharal. **2017**. Effect of different nitrogen and phosphorus fertilizer levels

- in combination with nitrogen and phosphorus solubilizing inoculants on the growth and yield of mungbean. **Pak. j. life soc. Sci.**, 15(1):31-36
25. Chattha, M.B., I. Khan, A. Mahmood, M.U. Chattha, S.A. Anjum, U. Ashraf, M. Zain and U. Bilal. **2017**. Seed priming with thiourea improves the performance of late sown wheat. **J Agric. Res.** 55(1):29-39
26. M. Nawaz, M.U. Chattha, **M. B. Chattha**, R. Ahmad, H, Munir, M. Usman, M.U. Hassan, S. Khan, and M. Kharal. **2017**. Assessment of compost as nutrient supplement for spring planted sugarcane (*Saccharum officinarum L.*) **J. Anim. Plant Sci.** 27(1): 283-293. **(I.F. 0.381)**
27. Chattha MU, Hassan MU, Khan I, **Chattha MB**, Mahmood A, Chattha MU, Nawaz M, Subhani MN, Kharal M and Khan S. **2017**. Biofortification of Wheat Cultivars to Combat Zinc Deficiency. **Front Plant Sci.** 8:281. **(I.F. 4.291)**
28. Ashfaq, M., M. A. Anjum, R. Hafeez, A. Ali, M. S. Haider, M. Ali, **M. B. Chattha**, S. R. Ahmad, F. Ahmad, F. Khan and M. Sajjad. **2017**. First Report of *Fusarium equiseti* Causing Brown Leaf Spot of Fishtail Palm (*Caryota mitis*) in Pakistan. **Plant Disease.** 101(5):840. **(I.F. 3.173)**
29. Khan, A., M.N. Subhani, **M.B. Chattha**, W. Anwar, and K. Nawaz. **2017**. First report of Whsiker Mold of Citrus (*Citrus sinensis*) caused by *Penicillium ulaiense* in Pakistan. **Plant Disease.** 101(6):1042. **(I.F. 3.173)**
30. Chattha, M.B., A. Iqbal, M.U. Chattha, M.U. Hassan, I. Khan, I. Ashraf, M. Faisal and M. Usman. **2017**. PGPR Inoculated-seed increases the productivity of forage sorghum under fertilized conditions. **J. Basic Appl. Sci.** 13:150-153.
31. Naseem, M.K., **M.B. Chattha**, A. Younis, H. Sardar, M.A. Hanif and G. Akhtar. **2017**. Supercritical fluid extraction technology for essential oil extraction of *Murraya exotica*. **Int. J. Biosci.** 10(4):151-159.
32. Maqsood, M., M.U. Chattha, M.U. Hassan, I. Khan, **M.B. Chattha**, M. Usman, A. Iqbal and M. Jawad. **2017**. Response of Sunflower to different Tillage systems and foliar application of Potassium under water deficit conditions. **INT. J. BIOL. BIOTECH.** 14(1): 265-270
33. Randhawa, M.S., M. Maqsood, M.A. Shahzad, M.U. Chattha, **M.B. Chattha**, F. Nawaz, S. Yasin, T. Abbas, M.M. Nawaz, R.D. Khan and U. Zulfiqar. **2017**. Light Interception, radiation use efficiency and biomass accumulation response of maize to integrated nutrient management under drought stress conditions. **Turk J. Field Crops.** 22(1), 134-142. **(I.F. 0.474)**
34. Ashfaq, M., Q.A.A., R. Hafeez, A, Ali, M.S. Haider, M. Ali, **M.B. Chattha**, A. Rasheed and M. Sajjad. **2017**. Microbial diversity associated with rice seeds. **Biologia.** 63(2):161-168.

35. Chattha, M.U., **M.B. Chattha**, I. Khan, U. Anwar, M.U. Hassan, M. Nawaz, S.A. Anjum, A. Mahmood and S. Mirza. **2017**. Effect of seeding rate and seed soaking duration on productivity of relay intercropped wheat in cotton. **Pak. J. Sci.** 69(2):190-194
36. Chattha, M.U., M. Maqsood, **M.B. Chattha**, I. Khan, M.U. Hassan, Q.U. Zaman. M. Usman and M. Maqbool. **2017**. Influence of zinc under deficit irrigation on growth and productivity of hybrid maize. **Pak. J. Sci.** 69(2):323-327
37. Maqsood, M., M.U. Chattha, **M.B. Chattha**, I. Khan, M.A. Fayyaz, M.U. Hassan, Q.U. Zaman and M.U. Chattha. **2017**. Influence of foliar applied potassium and deficit irrigation under different tillage systems on productivity of hybrid maize. **Pak. J. Sci.** 69(3): 317-322
38. **Chattha, M.B.**, M.U. Chattha, M.U. Hassan, I. Khan, M. Nawaz, M.A.U. Khan, M. Aamer and M. Usman. **2017**. Foliar application of growth promoting substances strongly influence the phenology, growth and yield of hybrid maize. **Int. J. Biol. Biotech.**, 14(4):597-602.
39. Chattha, M.U., M.U. Hassan, I. Khan, **M.B. Chattha**, H. Munir, M. Nawaz, A. Mahmood, M. Usman and M. Kharal. **2017**. Alternate skip irrigation strategy ensure sustainable sugarcane yield. **J. Anim. Plant Sci.** 27(5):1604-1610. (**I.F. 0.381**)
40. Nawaz, M., M.U. Chattha, S. Khan, **M.B. Chattha**, M. Ijaz, S. Khan, H. Munir, M.U. Hassan and M.U. Chattha. **2017**. Assessment of Distillery Spent Wash Water as a Potential Bionutrient Supplement for Spring Planted Sugarcane (*Saccharum officinarum L.*). **Philipp Agric Scientist.** 100(4):437-443. (**I.F. 0.248**)
41. Chattha, M.U., I. Khan, M.U. Hassan, M. Nawaz, **M. B. Chattha**, I. Ahmad, N.H. Khan, M. Usman, M. Kharal and A.U. Khan. **2017**. Agronomic appraisal of Amaranth accessions under semiarid conditions of Pakistan. **Pak. j. life soc. Sci.** 15(3):144-149.
42. Ahmad, S., **Chattha, M.B.**, Kaleem, M., Binyameen, M., Haider, M.U., Ali, Q. **2017**. Evaluation of some indigenous plant extracts for the management of onion Thrips (*Thrips tabaci*, Thysanoptera: Thripidae), **Int. J. Biol. Pharm Allied Sci.** 6(10): 2028-2036.
43. Hassan, M.U., M.U. Chattha, **M.B. Chattha**, A. Mahmood and S.T. Sahi. **2018**. Impact of harvesting times on chemical composition and methane productivity of sorghum (*Sorghum bicolor* Moench L.). **Appl. Ecol. Environ. Res.** 16(3): 2267-2276. (**I.F. 0.689**)
44. Hassan, M.U., M.U. Chattha, **M.B. Chattha**, A. Mahmood and S.T. Sahi. **2018**. Bio-methane production from sorghum elite lines under the climatic conditions of Pakistan. **Maydica**.63(1):1-8 (**I.F. 0.375**)
45. Chattha, M.U., I. Khan, M.U. Hassan, **M.B. Chattha**, M. Nawaz, Asif Iqbal, N.H. Khan, N. Akhtar, M. Usman, M. Kharal and M.A. Ullah. **2018**. Efficiency of extraction methods of *Moringa oleifera* leaf extracts for enhanced growth and yield of wheat. **J. Basic Appl. Sci.** 14:131-135

46. Khan, H.A.A., W. Akram, S. Lee, S. Manzoor, S.R. Ayub, K.U. Rehman, S.W. Ali, **M.B. Chattha** and S. Maqsood. 2018. Monitoring susceptibility to Spinosad in three major stored-product insect species from Punjab, Pakistan. *Pak. J. Zool.* 50(4): 1355-1360 (**I.F. 0.790**)
47. Chattha, M.U., H. Ali, M. Umer Chattha, M.U. Hassan, **M.B. Chattha**, M. Nawaz and S. Hussain. 2018. Combined application of distillery spent wash, bio-compost and inorganic fertilizers improves growth, yield and quality of wheat. *The Journal of Animal and Plant Sciences.* 28(4): 1112-1120 (**I.F. 0.529**)
48. Chattha, M.U., H. Ali, **M.B. Chattha**, M.U. Chattha, M.U. Hassan, M. Nawaz. 2018. Management of sugarcane distillery spent wash for improving the growth, yield and quality of wheat crop. *Appl. Ecol. Environ. Res.* 16(4): 4375-4385. (**I.F. 0.689**)
49. Alam, M.W., A. Rehman, S. Ahmad, M. Sarwar, M.K. Naseem, **M.B. Chattha**, A.U. Malik, S. Ali. 2019. First Report of Botrytis cinereal causing Postharvest Fruit Rot on stored Pomegranates in Pakistan. *Plant Disease.* 103(2). February 2019. (**I.F. 3.583**)
50. Hassan, M.U., M.U. Chattha, I. Khan, **M.B. Chattha**, M. Aamer, M. Nawaz, A. Ali, M.A.U. Khan, T.A. Khan. 2019. Nickel Toxicity in Plants: reason, toxic effects, tolerance mechanisms, and remediation possibilities - a review. *Environmental Science and Pollution Research.* 26(13):12673-12688. 29 March 2019. (**I.F. 2.914**)
51. Hassan, M.U., M.U. Chattha, L. Barbanti, M.B. Chattha, A. Mahmood, I. Khan, M. Nawaz. 2019. Combined cultivar and harvest time to enhance biomass and methane yield in sorghum under warm dry conditions in Pakistan. *Industrial Crops and Products.* 132. 84-91. (**I.F. 4.194**)
52. Hassan, M.U., M.U. Chattha, **M.B. Chattha**, A. Mahmood and S.T. Sahi. 2019. Chemical composition and methane yield of sorghum as influenced by planting methods and cultivars. *The Journal of Animal and Plant Sciences.* 29(1):251-259 (**I.F. 0.529**)
53. Yousaf, Q., M.N. Subhani, M.Z. Iqbal and **M.B. Chattha**. 2019. Effectiveness of fungicides, methanolic botanical extracts and antagonists against invasive *Phytophthora palmivora* inciting Leaf Spots of Chinese Fan Palm. *Bionature.* 38(6):376-385.
54. Chattha, M.U., M.U. Hassan, L. Barbanti, **M.B. Chattha**, I. Khan, M. Usman, A. Ali, M. Nawaz. 2019. Composted sugarcane by-product press mud cake supports wheat growth and improves soil properties. *International Journal of Plant Production.* 13(3):241-249. (**I.F. 0.961**)
55. Ahmad, S., M.W. Alam, S. Majeed, **M. Bilal**, M. Shafiq, M. Khurshid, M. Sarwar, T. Shafeeq, S. Salman, and Q. Ali. 2019. Study of morphological and qualitative plant traits against the infestation of *Chilo infuscatellus* L. (Pyralidae, Lepidoptera). *Applied Ecology and Environmental Research.* 17(5):7057-7065. (**I.F. 0.689**)

56. Sarwar, M., S. Ahmad, **M.B. Chattha**, M.U. Chattha, M.W. Alam, S. Anjum, T. Shafeeq, M.K. Naseem, and A. Mannan. 2019. Assessment of growth and productivity of Cucumber (*Cucumis sativus* L.) genotypes under salt stress regime. *Applied Ecology and Environmental Research*. 17(5):10793-10806. (**I.F. 0.689**)
57. Chattha, M.U., M.U. Hassan, I. Khan, **M.B. Chattha**, M. Aamer, M. Nawaz, S.A. Anjum, U. Ashraf, and M. Kharal. 2020. Impact of planting methods on biomass production, chemical composition and methane yield of sorghum cultivars. *Pakistan Journal of Agricultural Sciences*, 57(1): 43-51. (**I.F. 0.618**)