

## Prof. Dr. Muhammad Arif

### PUBLICATIONS IN IMPACT FACTOR JOURNAL

Year	S. No.	Research papers	IF (JCR 2018)
		Baseer Muhammad, Muhammad Adnan, Fazal Munsif, Shah Fahad, Muhammad Saeed, Fazli Wahid, Muhammad Arif, Jr. Amanullah, Depeng Wang, Shah Saud, Muhammad Noor, Muhammad Zamin, Fazli Subhan, Beena Saeed, Mian Ahmad Raza and Ishaq Ahmad Mian. 2019. Substituting urea by organic wastes for improving maize yield in alkaline soil. <i>Journal of Plant Nutrition</i> . <a href="https://doi.org/10.1080/01904167.2019.1659344">https://doi.org/10.1080/01904167.2019.1659344</a>	0.75
		Shah Fahad, Faheem Ahmed Khan, NuruliarizkiShinta Pandupuspitasari, Saddam Hussain, Imtiaz Ali Khan, Muhammad Saeed, Shah Saud, Shah Hassan, Muhammad Adnan, Amanullah, Muhammad Arif, Mukhtar Alam, Hidayat Ullah, Khalid Rehman Hakeem, Hesham Alharby, Muhammad Riaz, Muhammad Sameeullah, Hafiz Mohkum Hammad, Wajid Nasim, Shakeel Ahmad, Muhammad Afzal, Salem Safer Alghamdi, Atif A. Bamagoos, Elsayed Fathi Abd_Allah, and Jianliang Huang. 2019. Suppressing photorespiration for the improvement in photosynthesis and crop yields: A review on the role of S-allantoin as a nitrogen source. <i>Journal of Environmental Management</i> 237 (2019) 644–651.	4.005
2018	1	Shahzad Ali, Yueyue Xub, Irshad Ahmad, Qianmin Jia, Xiangcheng Ma, Amir Sohail, Manzoor, Muhammad Arif, Xiaolong Ren, Tie Cai, Jiahua Zhanga, Zhikuan Jia. 2018. The ridge-furrow system combined with supplemental irrigation strategies to improve radiation use efficiency and winter wheat productivity in semiarid regions of China. <i>Agricultural Water Management</i> 213 (2019): 76–86.	3.182
	2	Gul, S., R. Uddin, N.U. Khan, M. Arif, R. Goher and M. Zakaria. 2018. Inheritance studies through combining ability for morphological and yield traits in F1 populations of <i>Brassica napus</i> . <i>The J. Animal &amp; Plant Sci.</i> 28(4):1094-1102.	0.407
	3	K. Ali, M. Arif, B. Islam, Z. Hayat, A. Ali, K. Naveed and F. Shah. 2018. Formulation of biochar based fertilizer for improving maize productivity and soil fertility. <i>Pak. J. Bot.</i> , 50(1): 135-141.	0.75
	4	Iqbal, S., M. Arif, C. Thierfelder, T. Yasmeen, and T. Li. 2018. Reducing nitrogen losses and increasing maize productivity in organic manures-amended soils by increasing the ridge to furrow proportion. <i>Experimental Agriculture</i> , 1-15. doi:10.1017/s0014479718000091.	1.68
	5	Jalal, F., Arif, M., Ahmad, I. et al. <i>Gesunde Pflanzen</i> (2018).	0.639

<https://doi.org/10.1007/s10343-017-0412-x>

- Shahid Iqbal, H.Z. Khan, T. Li and M. Arif. 2018. Organic nitrogen source addition for improving the physicochemical properties of sandy loam soil and maize performance. *Communications in Soil Science and Plant Analysis*. DOI: 10.1080/00103624.2017.1420798. 0.54
- 6 Muhammad Adnan, Zahir Shah, Shah Fahad, Muhamamd Arif, Mukhtar Alam, Imtiaz Ali Khan, Ishaq Ahmad Mian, Abdul Basir, Hidayat Ullah, Muhammad Arshad, Inayat-ur-Rehman, Shah Saud, Muhammad Zahid Ihsan, Yousaf Jamal, Amanullah, Hafiz Mohkum Hammad and Wajid Nasim. Phosphate-solubilizing bacteria nullify the antagonistic effect of soil calcification on bioavailability of phosphorus in alkaline soils. *Scientific Reports*.7:16131DOI:10.1038/s41598-017-16537-51. 4.122
- 2017 7 Muhammad Arif, Muhammad Ilyas, Muhammad Riaz, Kawsar Ali, Kamran Shah, Izhar Ul Haq and Shah Fahad. 2017. Biochar improves phosphorus use efficiency of organic-inorganic fertilizers, maize-wheat productivity and soil quality in a low fertility alkaline soil. *Field Crops Research* 214:25–37. 3.127
- 8 Arif, M., M. Tariq, M.T. Jan, H. Akbar, I.A. Mian and M. Sajid. 2017. Effect of nitrogen application timing on yield components, fodder, grain, and oil yields of *Brassica* cultivars. *Communications in Soil Science and Plant Analysis*. DOI:10.1080/00103624.2017.1299164 0.54
- 9 Saud, S., S. Fahad, C. Yajun, M.Z. Ihsan, H.M. Hammad, W. Nasim, Amanullah, M. Arif and H. Alharby. 2017. Effects of nitrogen supply on water stress and recovery mechanisms in Kentucky Bluegrass plants. *Front. Plant Sci.* 8:983. doi: 10.3389/fpls.2017.00983. IF = 4.495 3.678
- 10 H. Naheed, Raziuddin, S. Abid1, Q. Sohail, G. Hassan, M. Arif. 2017. Heritability and combining ability of vegetative growth and phenological development of diallel crosses of rapeseed. *Genetika*. 49(1): 117-126. IF = 0.308 0.392
- 11 Muhammad Riaz, Mahnaz Roohi, Muhammad Saleem Arif, Qaiser Hussain, Tahira Yasmeen, Tanvir Shahzad, Sher Muhammad Shahzad, Hufsa Faqeer Muhammad, Muhammad Arif, and Muhammad Khalid. 2017. Corn-cob-derived biochar decelerates mineralization of native and added organic matter (AOM) in organic matter depleted alkaline soil. *Geoderma*. 294:19–28. IF = 2.855. 3.74
- 12 Shahid Iqbal, Christian Thierfelder, Haroon Zaman Khan, H.M. Rashad Javeed, Muhammad Arif and Muhammad Shehzad. 2017. Maximizing maize quality, productivity and profitability through a combined use of compost and nitrogen fertilizer in a semi-arid environment in Pakistan. *Nutrient Cycling in Agroecosystems*. 107:197–213. DOI 10.1007/s10705-017-9829-y. IF=1.49 2.105
- 13

		Kawsar Ali, Muhammad Arif, Farooq Shah, Aamir Shehzad, Fazal Munsif, Ishaq Ahmad Mian and Afaq Ahmad Mian. 2017. Improvement in maize ( <i>Zea mays</i> L.) growth and quality through integrated use of biochar. <i>Pakistan Journal of Botany</i> . 49(1): 85-94. IF=0.750	
	14		0.75
		Arif, M. K. Ali, M.T. Jan, Z. Shah, D.L. Jones, R.S. Quilliam. 2016. Integration of biochar with animal manure and nitrogen for improving maize yields and soil properties in calcareous semi-arid agroecosystems. <i>Field Crops Research</i> . 195:28–35.	
2016	15		3.127
		Fazal Jalal, Muhammad Arif, Kawsar Ali, Fazal Munsif, Muhammad Jamal Khan and Bushra Khan. 2016. Integration of biochar and legumes in summer gap for enhancing productivity of wheat under cereal based cropping system. <i>Pak. J. Bot.</i> , 48(6): 2281-2288.	
	16		0.75
		Munsif, F., M. Arif, K. Ali, M.J. Khan, S. Munir and F. Rasul. 2016. Evaluation of various morpho-physiological and growth traits of dual purpose wheat under early sowing dates. <i>Pak. J. Bot.</i> 48(1): 81-88, 2016.	
	17		0.75
		Basir, A., M.T. Jan, M. Arif and M.J. Khan, 2016. Response of tillage, nitrogen and stubble management on phenology and crop establishment of wheat. <i>Int. J. Agric. Biol.</i> , 18: 1–8.	
	18		0.869
		Muhammad Adnan, Zahir Shah, Muhammad Arif, Muhammad Jamal Khan, Ishaq Ahmad Mian, Muhammad Sharif, Mukhtar Alam, Abdul Basir, Hidayat Ullah, Inayat-ur-Rahman, Nouman Saleem. 2016. Impact of rhizobial inoculum and inorganic fertilizers on nutrients (NPK) availability and uptake in wheat crop. <i>Canadian J. Soil Sci.</i> 96(2):169-176. (doi: 10.1139/cjss-2016-0012).	
	19		1.085
		Arif, M., F. Jalal, M.T. Jan, D. Muhammad and R.S. Quilliam. 2015. Incorporation of biochar and legumes into the summer gap: improving productivity of cereal-based cropping systems in Pakistan. <i>Agroecology and Sustainable Food Systems</i> . 39(4): 391-398.	
2015	20		1.14
		Shah Fahad, Saddam Hussain, Shah Saud, Fahad Khan, Shah Hassan, Amanullah Jr, Wajid Nasim, Muhammad Arif, Fei Wang, Jianliang Huang. 2015. Exogenously Applied Plant Growth Regulators Affect Heat-stressed Rice Pollens. <i>J. Agron Crop Sci.</i> online DOI: 10.1111/jac.12148.	
	21		2.571

	22	Shahen Shah, Ghufran Ghani, Hamayoon Khan, Muhammad Arif, Abdul Qahar, Inamullah, Asad Ali and Musharaf Ahmad. 2015. Response of maize cultivars to phosphorus and zinc nutrition. <i>Pak. J. Bot.</i> , 47(SI): 289-292.	0.75
	23	Naveed, K., M.A. Khan, M.S. Baloch, M. Arif, S.A. Naqvi, J. Khan, and S. Ali. 2015. Early planting date can compensate the reduction in wheat yield due to fodder cutting in dual purpose wheat. <i>Pak. J. Agric. Sci.</i> , 52(2): 469-477.	0.677
	24	K. Ali, M. Arif, M.T. Jan, M.J. Khan and D.L. Jones. 2015. Integrated use of biochar: a tool for improving soil and wheat quality of degraded soil under wheat-maize cropping pattern. <i>Pak. J. Bot.</i> 47(1): 233-240.	0.75
	25	K. Ali, M. Arif, M.T. Jan, T. Yaseen, F. Munsif and M. Waqas. 2015. Biochar: A novel tool to enhance wheat productivity and soil fertility on sustainable basis under wheat-maize-wheat cropping pattern. <i>Pak. J. Bot.</i> , 47(3): 1023-1031.	0.75
	26	F. Munsif, M. Arif, M.T. Jan, Kawsar Ali and M.J. Khan. 2015. Influence of sowing dates on phenological development and yield of dual purpose wheat cultivars. <i>Pak. J. Bot.</i> 47(1): 83-88.	0.75
	27	F. Munsif, M. Arif, K. Ali, M.T. Jan and M.J. Khan. 2015. Influence of planting dates on grain quality of different wheat cultivars under dual purpose wheat system. <i>Int. J. Agric. and Bio.</i> 17(5):945-952.	0.869
	28	Kawsar Ali, Muhammad Arif, Shahen Shah, Zahid Hussain, Asad Ali, Said Munir and Hassan Sher. 2015. Effect of organic and inorganic nutrients sources on phenology and growth of wheat. <i>Pak. J. Bot.</i> , 47(6): 2215-2222.	0.75
2014	29	<b>Arif, M.</b> , M. T. Jan, I.A. Mian, S.A. Khan, P. Hollington and D. Harris. 2014. Evaluating the impact of osmopriming varying with polyethylene glycol concentrations and durations on soybean. <i>Int. J. Agric. Biol.</i> 16(2): 349-364.	0.869
	30	Shah, A., M. Akmal, <b>M. Arif</b> and M.J. Khan. 2014. Yield potential of spring wheat influenced by crop residue, tillage system and nitrogen rate on irrigated land. <i>Sains Malaysiana.</i> 43(12):1811-1819.	0.565
2013	31	Miraj, G., H.U. Shah and M. Arif. 2013. Priming maize ( <i>zea mays</i> ) seed with phosphate solutions improves seedling growth and yield. <i>J. Animal &amp; Plant Sci.</i> 23(3):893-899.	0.407

		<b>Arif, M.,</b> M. Tariq, F. Munsif, M.T. Jan, A. Rab and A. Khan. 2012. Effect of nitrogen application timing and cutting treatments on phenology and leaf area of three brassica cultivars. <i>Communications in Soil Science and Plant Analysis</i> , 43:2809–2819.	
2012	32		0.54
		Shah, H., T. Jalwat, <b>M. Arif,</b> G. Miraj. 2012. Seed priming improves early seedling growth and nutrient uptake in mungbean. <i>J. Plant Nutrition</i> . 35:805–816.	
	33		0.565
		Rab, A., M. Sajid, N.U. Khan, K. Nawab, <b>M. Arif</b> and M.K. Khattak. 2012. Influence of storage temperature on fungal prevalence and quality of citrus fruit (cv. blood red). <i>Pak. J. Bot.</i> 44(2): 831-836.	
	34		0.75
		M. Sajid, M. A. Khan, A. Rab, S. N. M. Shah, <b>M. Arif,</b> Z. Hussain and M. Mukhtiar. 2012. Impact of nitrogen and phosphorus on seed yield and yield components of okra cultivars. <i>The Journal of Animal and Plant Sciences</i> , 22(3): 704-707.	
	35		0.407
		Jan, M.T., M.J. Khan, Farhatullah, <b>M. Arif,</b> M.Z. Afridi, A. Khan and H. Akbar. 2012. Integrated management of crop residue and N fertilizer for wheat production. <i>Pak. J. Bot.</i> , 44(6): 2015-2019.	
	36		0.75
		<b>Arif, M.,</b> M.T. Jan, N.U. Khan, Ziauddin, H. Akbar, and M.Z. Khan. 2011. Effect of cropping system and residue management on maize. <i>Pak. J. Bot.</i> 43(2): 915-920.	
2011	37		0.75
		M.J. Khan, M.T. Jan, M. Shafi, <b>M. Arif</b> and S. Perveen. 2011. The effect of using waste water for tomato. <i>Pak. J. Bot.</i> 43(2):1033-1044.	
	38		0.75
		M.T. Jan, A. Khan, M.J. Khan, <b>M. Arif,</b> M. Shafi and M.Z. Afridi. 2011. Improving wheat productivity through source and timing of nitrogen fertilization. <i>Pak. J. Bot.</i> 43(2): 905-914.	
	39		0.75
		Rozina, H., H. Khan, Shahensha, L. Naz, I. Munir, <b>M. Arif,</b> I.A. Khalil and A.Z. Khan. 2011. Performance of chickpea genotypes under two different environmental conditions. <i>African J. Biotech.</i> 10:1534-1544.	
	40		0
		Shuja, M.N., W. Ali, A. Iqbal, I. Ali, I. Munir, <b>M. Arif</b> and Z.A. Swati. 2011. Maize breeding for marginal lands: physiological and molecular approach to decipher response and selection of maize recombinant inbred lines (RILs) under deficit at early growth stage. <i>African J. Biotech.</i> 10(18):3521-3527.	
	41		0

	Ali, S., I. Munir, <b>M. Arif</b> , Inamullah, Farhatullah, I. Ali and Z.A. Swati. 2011. Characterization of <i>Brassica napus</i> germplasms based on molecular markers. African J. Biotech. 10(16):3035-3039.	
42	Wisal M.K., I. Munir, Farhatullah, <b>M. Arif</b> , A. Iqbal, I. Ali, D. Ahmad, M. Ahmad, A. Mian, J. Bakht, Inamullah and Z.A. Swati. 2011. Assessment of genetic diversity of Brassica juncea germplasm using randomly amplified polymorphic DNA (RAPD) markers. African J. Biotech. 10(19): 3654-3658.	0
43	Khalid Nawab, Amanullah, P. Shah, A. Rab, <b>M. Arif</b> , M.A. Khan, A. Mateen and F. Munsif. 2011. Impact of integrated nutrient management on growth and grain yield of wheat under irrigated cropping system. Pak. J. Bot. 43(4): 1943-1947.	0
44	Sattar, S., Farmanullah, A.R. Saljoqi, <b>M. Arif</b> , H. Sattar and J.I. Qazi. 2011. Toxicity of some new insecticides against trichogramma chilonis (hymenoptera: trichogrammatidae) under laboratory and extended laboratory conditions. Pakistan J. Zool. 43(6):1117-1125.	0.75
45	Gulzar, A., A. Jan, <b>M. Arif</b> , M.T. Jan and H. Shah. 2011. Effect of nitrogen and sulfur fertilization on yield components, seed and oil yields of canola. J. Plant Nutrition. 34:2069–2082.	0.547
46	Khalid, N., Amanullah, <b>M. Arif</b> , P. Shah, A. Rab, M.A Khan and K. Khan. 2011. Effect of FYM, potassium and zinc on phenology and grain yield of wheat in rainfed cropping systems. Pak. J. Bot. 43(5): 2391-2396.	0.565
47	Akmal, M., S.M. Shah, M. Asim and <b>M. Arif</b> . 2011. Causes of yield reduction by delayed planting of hexaploid wheat in Pakistan. Pak. J. Bot. 43(5): 2561-2568.	0.75
48	Jamal, Y., M. Shafi, J. Bakht and <b>M. Arif</b> . 2011. Seed priming improves salinity tolerance of wheat varieties. Pak. J. Bot. 43(6):2683-2686.	0.75
49	S. Alam, H.U. Shah, N. Magan, J.I. Qazi and <b>M. Arif</b> . 2010. Effects of calcium propionate and water activity on growth and aflatoxins production by aspergillus parasiticus. Pakistan J. Zoology. 42(1): 57-62.	0.75
2010	<b>M. Arif</b> , M.T. Jan, Naqibullah Khan, Ahmad Khan, M.J. Khan and Iqbal Munir. 2010. Effect of seed priming on growth parameters of soybean. Pakistan J. Botany. 42(4): 2803-2812.	0.547
51		0.75

		<b>M. Arif</b> , M.T. Jan, N.U. Khan, H. Akbar, S.A. Khan, M.J. Khan, A. Khan, I. Munir, M. Saeed and A. Iqbal. 2010. Impact of plant population and nitrogen levels on maize. <i>Pakistan J. Botany</i> . 42(6):3907-3913.	0.75
	52		
		M.J. Khan, M.T. Jan, A.U. Khan, <b>M. Arif</b> , and M. Shafi. 2010. Management of saline sodic soils through cultural practices and gypsum. <i>Pak. J. Bot.</i> 42(6): 42(6): 4143-4155.	0.75
	53		
		M.T. Jan, M.J. Khan, A. Khan, <b>M. Arif</b> , M. Shafi, and Farmanullah. 2010. Wheat nitrogen indices response to nitrogen source and application time. <i>Pak. J. Bot.</i> 42(6): 4267-4279.	0.75
	54		
		Jan, A., G. Ahmad, <b>M. Arif</b> , M.T. Jan and K.B. Marwat. 2010. Quality parameters of canola as affected by nitrogen and sulfur fertilization. <i>J. Plant Nutrition</i> . 33:381–390.	0.565
	55		
		A. Khan, M.T. Jan, K.B. Marwat and <b>M. Arif</b> . 2009. Organic and inorganic nitrogen treatments effects on plant and yield attributes of maize in a different tillage systems. <i>Pakistan J. Botany</i> . 41(1):99-108.	
2009	56		0.75
		<b>M. Arif</b> , I. Amin, M.T. Jan, N.U. Khan, K. Nawab and K.B. Marwat. 2009. Effect of plant population and nitrogen levels and methods of application on ear characters and yield of maize. <i>Pakistan J. Botany</i> . 42(3):1959-1967.	
	57		0.75
		Harris, D., A. Rashid, G. Miraj, <b>M. Arif</b> and M. Yunas. 2008. ‘On-farm’ seed priming with zinc in chickpea and wheat in Pakistan. <i>Plant and Soil</i> . 306:3-10.	
2008	58		3.306
		<b>Arif, M.</b> , M.T. Jan, K.B. Marwat and M.A. Khan. 2008. Seed priming improves emergence and yield of soybean. <i>Pak. J. Botany</i> . 40(3):1169-1177.	
	59		0.75
		Sajid, A., A.R. Khan, G. Mairaj, <b>M. Arif</b> , M. Fida and S. Bibi. 2008. Assessment of different crop nutrient management practices for yield improvement. <i>Australian J. Crop Sci.</i> 2(3):150-157.	
	60		0
		Ahmad, K., M. T. Jan, <b>M. Arif</b> , K.B. Marwat and A. Jan. 2008. Phenology and crop stand of wheat as affected by nitrogen sources and tillage systems. <i>Pak. J. Botany</i> . 40(3): 1103-1112, 2008.	
	61		0.75
		Harris, D., A. Rashid, G. Miraj, <b>M. Arif</b> , and H. Shah. 2007. ‘On-farm’ seed priming with zinc sulphate solution—A cost-effective way to increase the maize yields of resource-poor farmers. <i>Field Crops Res.</i> 102:119-127.	
2007	62		3.127

63	Bahadar, K.M., <b>M. Arif</b> , and M.A. Khan. 2007. Effect of tillage and Zinc application methods on weeds and yield of maize. Pak J. Botany. 39(5):1583-1591.	0.75
64	Ahmad G., A. Jan, <b>M. Arif</b> , M.T. Jan, R.A. Khattak. 2007. Influence of nitrogen and sulfur fertilization on quality of canola ( <i>Brassica napus</i> L.) under rainfed conditions. J. Zhejiang Univ. Sci. B. 2007 8:731-737.	1.815 <b>69.315</b>

## PUBLICATION IN INTERNATIONAL JOURNALS OR CONFERENCES

1. Arif, M., S. Ali, 2018. Integration of Biochar with Organic-Inorganic Phosphorus Sources for Improving Maize Productivity and Soil Fertility. Proceeding of the 2nd International Conference of Biotechnology and Environment (ICBE 2018) Alexandria-Egypt held on March 28-30, 2018.
2. Harris, D., A. Rashid, **M. Arif** and M. Yunas. Alleviating Micronutrient Deficiencies in Alkaline Soils of the North West Frontier Province of Pakistan: On-farm Seed Priming with Zinc in Wheat and Chickpea. Micronutrients in South and South East Asia Proceedings of an International Workshop held 8-11 September, 2004, Kathmandu, Nepal.
3. Khalid Nawab, Amanullah and **M. Arif**. 2006. Response of wheat to farmyard manure, potassium and zinc under irrigated cropping patterns. Proc. 4<sup>th</sup> Int. Cong. Biol. Sci. (Botany), Egypt 165-170. (2006).
4. Muhammad Arif. 2006. Nutrient seed priming for improving wheat yield. Proc. 4<sup>th</sup> Int. Conf. Biol. Sci. (Botany), Egypt 165-170.
5. Amanullah, K. Nawab, **M. Arif** and A. Ali. 2006. Maize grain yield and quality as influenced by plant density, rate and timing of nitrogen application. Proc. 4<sup>th</sup> Int. Con. Biol. Sci. (Botany), Egypt 159-164 (2006).
6. **Arif, M.**, M. Waqas, K. Nawab and M. Shahid. 2007. Effect of seed priming in Zn solutions on chickpea and wheat. In: African Crop Science Conference Proceeding. El-Minia, Egypt, 27-31 October, 2007. 8(1-4):237-240.
7. Shahid, M., B. Ahmad, R.A. Khattak and **M. Arif**. 2007. Integration of herbicides with aqueous allelopathic extracts for weeds control in wheat. In: African Crop Science Conference Proceeding. El-Minia, Egypt, 27-31 October, 2007. 8(1-4):209-212.
8. Hadi, F., F. Hussain and **M. Arif**. 2012. Growth performance and comparison of cowpea varieties under NaCl salinity stresses. Greener J. Physical Sci. 2(1): 001-006.
9. Hadi, F., F. Hussain and M. Arif. 2012. Effect of different water treatments on growth behavior of cowpea (*Vigna unguiculata subsp. Unquiculata* (L.) Walp.).
10. Ahmad, B., M. Waqas, **M. Arif**, F. Munsif and Z. M. Din. 2012. Effect of humic acid application methods on yield and yield components of mungbean. In Proceedings of the National Seminar on Role of Agronomy in National Food Security. January 07, 2012 held at Ayub Agricultural Research Institute Faisalabad, Pakistan.

11. F. Munsif, M. Arif, M.T. Jan and M.J. Khan. 2013. Phenology of dual purpose wheat cultivars as influenced by planting dates. *Scholarly J. Agric. Sci.* 3(9):340-350.
12. Waqas, M., Ahmad, B., Arif, M., Munsif, F., Khan, A.L., Amin, M., Kang, S.-M., Kim, Y.-H. and Lee, I.-J. 2014. Evaluation of humic acid application methods for yield and yield components of mungbean. *American J. Plant Sci.* **5**:2269-2276.
13. Imran, S., M. Arif, A. Khan, M.A. Khan, W. Shah. 2015. Effect of nitrogen levels and plant population on yield and yield components of maize. *Adv Crop Sci Tech* 3(2):1-7.
14. Khan, A., R. Zaman, **M. Arif** and M.T. Jan. 2010. Combating food shortages through fertilizer management under improved planting practice. Proc. 15<sup>th</sup> ASA Conf. 15-19 Nov, 2010, Lincoln, New Zealand.

## **PUBLICATION IN NATIONAL JOURNALS (HEC RECOGNISED)**

### **2018**

15. Mubarik, M., A. Iqbal, I. Munir and M. Arif. 2017. Alleviation of adverse effects of water stress on Zea mays (Cv Azam) by exogenous application of CaCl<sub>2</sub>. *Sarhad Journal of Agriculture*, 34(2): 327-333.

### **2015**

16. K. Ali, M. Arif, Waheed, Abdullah, W. Ahmad, M. Rabnawaz Khan, L.S. Ayeni, M. Amin and M. Jehangir. 2015. Influence of Organic and Inorganic Amendments on Weeds Density And Chemical Composition. *Pak J. Weeds Sci Res.* 21(1): 47-57.
17. N. Saleem, M. Adnan, N.A. Khan, S. Zaheer, F. Jalal, M. Amin, W.M. Khan, **M. Arif**, I. Rahman, M. Ibrahim, Y. Jamal, S.R.A. Shah, K. Junaid and M. Ali. 2015. Dual purpose canola: grazing and grains options. *Pak. J. Weed Sci. Res.* 21(2):295-304.
18. **Arif, M.**, M. Adnan, N. Saleem, A. Basir, S.R.A. Shah, M. Ali and Y. Jamal. 2015. Impact of grazing on wheat yield and associated weeds. *Pak. J. Weed Sci. Res.* 21(3): 351-358, 2015

### **2014**

19. Naveed. K., M. A. Khan., M. S. Baloch., K. Ali., M. A. Nadim., E. A. Khan., S. Shah and **M. Arif**. 2014. Effect of different seeding rates on yield attributes of dual-purpose wheat. *Sarhad J. Agric.* 30(1): 83-91.
20. F. Hadi, Aziz-ur-Rahman, M. Ibrar, G. Dastagir, **M. Arif**, K. Naveed and M. Adnan. 2014. Weed diversity in wheat and maize with special reference to their ethnomedicinal uses at rech valley, hindokush range, chitral, pakistan. *Pak. J. Weed Sci. Res.*, 20(3): 335-346.
21. Imran, M., **M. Arif**, S. Ali, S. Ahmad, M. Ullah and M. Habibullah. 2014. Integration of biochar with organic and inorganic sources of phosphorous for improving maize productivity. *J. Environ. Earth Sci.* 4(11): 1-6.

### **2013**

22. **Arif, M.**, K. Ali, M.S. Haq and Z. Khan. 2013. Biochar, FYM and nitrogen increases weeds infestation in wheat. *Pak. J. Weed Sci. Res.* 19(4): 411-418.
23. M. A. Khan, Z. Shah, A. Rab, **M. Arif** and T. Shah. 2013. Effect of Urease and nitrification inhibitors on wheat yield. *Sarhad J. Agric.* 29(3): 371-378.
24. Ali, K., **M. Arif**, Z. Khan, M. Tariq, M. Waqas, B. Gul, S. Bibi, Zia-ud-Din, M. Ali, B. Shafi and M. Adnan. 2013. Effect of cutting on productivity and associated weeds of canola. *Pak. J. Weed Sci. Res.* 19(4): 393-401.
25. Tariq, M., Z. Khan, **M. Arif**, K. Ali, M. Waqas, K. Naveed, M. Ali, M.A. Khan, B. Shafi and M. Adnan. 2013. Effect of nitrogen application timings on the seed yield of Brassica cultivars and associated weeds. *Pak. J. Weed Sci. Res.* 19(4): 493-502.

## **2012**

26. **Arif, M.**, A. Ali, M. Umair, F. Munsif, K. Ali, Inamullah, M. Saleem and G. Ayub. 2012. Effect of biochar, FYM and mineral nitrogen alone and in combination on yield and yield components of maize. *Sarhad J. Agric.* 28(2):191-195.
27. **Arif, M.**, K. Ali, F. Munsif, W. Ahmad, A. Ahmad and Khalid Naveed. 2012. Effect of biochar, FYM and nitrogen on weeds and maize phenology. *Pak. J. Weed Sci. Res.* 18(4): 475-484.
28. Hadi, F., **M. Arif** and F. Hussain. 2012. Response of dual purpose barley to rates and methods of nitrogen application. *ARPJ. Agric. Biol. Sci.* 7(7): 1990-1995.

## **2011**

29. **M. Arif**, M. Waqas, F. Munsif, A. Ali, Z. Hussain, N. Khan and A. Samad. 2011. Seed priming in Zn solutions enhances emergence and yield of chickpea. *Int. J. Biol. Biotech.* 8(2): 295-298.
30. Saifullah, A. Jan, F. Munsif, **M. Arif**, H. Khan, K. Ali and M. Waqas. 2011. Performance of millet varieties under different irrigation levels. *Sarhad J. Agric.* 27(1): 1-7.
31. F. Munsif, **M. Arif**, N. Khan, Z. Hussain, M. Waqas and K. Ali. 2011. Effect of tillage depth and seedling growth, fodder yield and economic value of maize. *Int. J. Biol. Biotech.* 8(2):233-237.
32. Khalil, I.A., H. Rahman, N. Rehman, **M. Arif**, I.H. Khalil, M. Iqbal, Hidayatullah, K. Afridi, M. Sajjad and M. Ishaq. 2011. Evaluation of maize hybrids for grain yield stability in North West of Pakistan. *Sarhad J. Agric.* 27(2): 213-218.
33. Gul, R., H. Khan, S. Sattar, Farhatullah, F. Munsif, Shadman, S. A.K. Bangash, S. H. Khattak, **M. Arif**, and A. Ali. 2011. Comparison among nodulated and non nodulated chickpea genotypes. *Sarhad J. Agric.* 27(4): 1-5.
34. Inamullah, N. Rehman, N.H. Shah, **M. Arif**, M. Siddiq and I.A. Mian. 2011. Correlations among grain yield and yield attributes in maize hybrids at various nitrogen levels. *Sarhad J. Agric.* 27(4):531-538.
35. Saleem, R., Z.I. Ahmed, M. Ashraf, **M. Arif**, M.A. Malik, M. Munir and M.A Khan. 2011. Response of maize-legume intercropping system to different fertility sources under rainfed conditions. *Sarhad J. Agric.* 27(4):503-511.

## **2010**

36. Ahmad, I., M.T. Jan and **M. Arif**. 2010. Tillage and nitrogen management impact on maize. *Sarhad J. Agric.* 26(2):157-167.
37. Sajid, M., A. Rab, N. Ali, **M. Arif**, L. Ferguson and M. Ahmed. 2010. Effect of foliar application of Zn and B on fruit production and physiological disorders in sweet orange Cv. Blood orange. *Sarhad J. Agric.* 26(3):355-360.
38. Afridi, M.Z., M.T. Jan, **M. Arif** and A. Jan. 2010. Wheat yielding components response to different levels of fertilizer-N application time and decapitation stress. *Sarhad J. Agric.* 26 (4): 499-506.

## 2009

39. Ali, S., A. Shah, **M. Arif**, G. Miraj, I. Ali and N.M. Khan. 2009. Enhancement of wheat grain yield and yield components through foliar application of Zn and B. *Sarhad J. Agric.* 25(1):15-19.
40. Akbar, M., B. Ahmad, **M. Arif**, G. Ahmad, Z. Shah and W. Jianhua. 2009. Water absorption and priming with osmotica responses on germination of pearl millet cultivars. *Sarhad J. Agric.* 25(1):7-13.

## 2007

41. **Arif, M.**, F. Munsif, M. Waqas, I.A. Khalil and K. Ali. 2007. Effect of tillage on weeds and economics of fodder maize production. *Pak. J. Weed Sci. Res.* 13(3-4):167-175.
42. Attaullah Khan, **M. Arif**, Asad Shah, Sajid Ali, Zahira Hussain and Sajjad Khan. 2007. Evaluation of planting methods for grain yield and yield components of wheat. *Sarhad J. Agric.* 23(3):561-564.
43. Jan, T., M.T. Jan, **M. Arif**, H. Akbar and S. Ali. 2007. Response of wheat to source, type and time of nitrogen application. *Sarhad J. Agric.* 23(4):871-879.
44. Azam, S., M. Ali, M. Amin, S. Bibi and **M. Arif**. 2007. Effect of plant population on maize hybrids. *J. Agric. and Biol. Sci.* 2(1):13-20.

## 2006

45. **Arif, M.**, M.A. Khan, H. Akbar, and S. Ali. 2006. Prospects of wheat as a dual purpose crop and its impact on weeds. *Pak. J. Weed Sci. Res.* 12(1-2): 13-17, 2006.
46. **Arif, M.**, S. Ali, A. Khan, T. Jan, and M. Akbar. 2006. Influence of farm yard manure application on various wheat cultivars. *Sarhad J. Agric.* 22(1):27-29.
47. **Arif, M.**, M.A. Chohan, S. Ali, R. Gul and S. Khan. 2006. Response of wheat to foliar application of nutrients. *J. Agric. and Biol. Sci.* 1(4):30-34.
48. Ali, S. **M. Arif**, R. Gul and I Ali. 2006. Improving seed emergence and early seedling growth through water soaking. *S. Khyber.* 19 (2):173-177.
49. M. Ilyas, A. Khan and **M. Arif**. 2006. Performance of different wheat varieties under the climatic condition of Peshawar. *Sarhad J. Agric.* 22(3): 39-42.
50. Ahmad, G., A. Jan, Inamullah and **M. Arif**. 2006. Phenology and physiology of canola as affected by nitrogen and sulfur fertilization. *J. Agron.* 5(4):555-562.
51. H. Akbar, M. Idrees, M.F. Ahmad, **M. Arif** and M. Zakirullah. 2006. Dry weight of spike at anthesis determines grain weight of spike at maturity. *J. Agric. and Biol. Sci.* 1 (3):55-61.

## 2005

52. **M. Arif**, S. Ali, A. Shah, N. Javed, and A. Rashid. 2005. Seed priming maize for improving emergence and seedling growth. *Sarhad J. Agric.* 21(4): 17-20.

## 2004

53. Kakar, K.M., **M. Arif**, K. Nawab and A.M. Kakar. 2004. Effect of weed management at various growth stages on wheat. *Pakistan J. Scientific. Res.* 56(1-2):13-17.

## 2003

54. **Arif, M.**, K.M. Kakar, M.T. Jan and M. Yunas. 2003. Seed soaking enhances emergence of mungbean. *Sarhad J. Agric.* 19(4):439-441.
55. **Arif, M.**, K.M. Kakar, S.A. Sadiq and G. M. Kakar. 2003. Effect of time of nitrogen application on rice (IRRI-6). *J. Sci. & Tech. Univ. of Peshawar.* 27:15-18.
56. **Arif, M.**, K.M. Kakar, and G. M. Kakar. 2003. Response of sunflower to various levels of nitrogen and phosphorus. *J. Sci. & Tech. Univ. of Peshawar.* 27:63-66.
57. Taj, F.H., **M. Arif** and K.M. Kakar. 2003. Effect of seed rates on mungbean varieties under dry land conditions. *Int. J. Agric. Bio.* 1560-8530/2003/05-2-160-161.
58. Shahid, M., M. Qaim, **M. Arif** and A. Khan. 2003. Fodder production potential of sorghum-legume intercropping. *Pak J. Soil Science.* 22(4):54-57.

## 2002

59. Sajid, M., M. Ishtiaq, F. Wazir and **M. Arif**. 2002. Comparative performance of three potato cultivars on five sowing methods. *Asian J. Plant Sci.* 1(2):156-157.
60. **Arif, M.**, F.H. Taj, K. M. Kakar., and K. Nawab. Seed rates effect on wheat varieties. *Sarhad J. Agric.* 17(4): 549-552, 2002.
61. Yousafzai, H. K., **M. Arif**, R. Gul, N. Ahmad and I. A. Khan. 2002. Effect of sowing dates on maize cultivars. *Sarhad J. Agric.* 18(1):11-15
62. Kakar, K.M., **M. Arif** and K. Nawab. 2002. Comparative Assessment of phosphorus forms for wheat applied at different stages. *Pak. J. Soil Sci.* 21(4):14-20.

## 2001

63. **Arif, M.**, P. Shah, A. Farooq and A. Riaz. 2001. Effect of Auxin on different wheat varieties. *Sarhad J. of Agric.* Vol. 17 (1) 2001.
64. **Arif, M.**, U. Ihsan., G. Farhad and Y. K. Humayoon. 2001. Response of maize varieties to different planting methods. *Sarhad J. of Agric.* Vol. 17(2): 159-164, 2001.
65. **Arif, M.**, U. Ihsan and K. Sherin. 2001. Effect of various weed control methods on the performance of canola. *Sarhad J. of Agric.* Vol. 17(3): 321-324, 2001.
66. **Arif, M.**, K. M., A. Riaz and A. Shoukat. 2001. Effect of tillage practices and seed rates on wheat. *Pak. J. Bio. Sci.* 4(9): 1087-1089, 2001.
67. **Arif, M.**, K. Nawab and K. M. Kakar. 2001. Effects of phosphorus and nitrogen on rice varieties under continuous and weekly irrigation systems. *Sarhad J. Agric.* 17(4): 503-510, 2001.
68. Kakar, K.M., **M. Arif** and A. Shoukat. 2001. Effect of NP levels, seed rates and row spacing on wheat. *Pak. J. Biol. Sci.* 4(11): 1319-1322, 2001.
69. Shah, S., K. Sohail., M. Zar., H. Yousaf and **M. Arif**. 2001. Effect of different row spacing and orientation on the performance of maize. *Sarhad J. Agric.* 17(4): 515-518, 2001.

70. Humayoon, Y. K., **M. Arif** and R. Gul 2001. The residual effect of groundnut crop and soil amendments on the performance of gram under rainfed condition. Sarhad J. Agric. 17(4): 525-532, 2001.
71. Sajid, M., M. Ishtiaq, N. Amin., **M. Arif** and Z. Rehman. 2001. Effect of nitrogen and phosphorous on growth and yield of red chillies. Sarhad J. Agric. 17(4): 549-552, 2001.

**2000**

72. Zada, K., P. Shah and **M. Arif**. 2000. Management of organic farming: effectiveness of farmyard manure (FYM) and nitrogen for maize productivity. Sarhad J. Agric. Vol. 16 (5) 2000.