

Dr. Muhammad Muzammil Jahangir

Father's name: Muhammad Ali Nadeem

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Experience

1. Associate professor, Institute of Horticultural Sciences, University of Agriculture, Faisalabad, Pakistan. 2022-to date

Research Interest

Production, Processing and Storage of Vegetable Crops

Qualification

- Ph.D. Processing and Storage of Agriculture Products (Horticultural Crops), Zhejiang University, P.R. CHINA, 2007-2011.
- M.Sc. (Hons.) Horticulture (Olericulture) University of Agriculture, Faisalabad, 2004-2006.
- B.Sc. (Hons.) Agriculture, University of Agriculture, Faisalabad, 2000-2004.

Research Projects

As (PI)

1. "Farmers capacity building for mushroom growing using cotton gin waste as growing substrate" under WWF-P SPRING project "sustainable cotton production in Pakistan cotton ginning SMEs" funded by World Wide Fund For Nature (WWF-PAKISTAN) . Amount Rs. 0.2623 Million
2. Popularization of home gardening in urban and peri urban areas of Punjab" (zone -01-Lahore, Okara) funding agency: Endowment Fund Secretariat, University of Agriculture, Faisalabad, Pakistan Amount: Rs. 2.143 Million.

As (Co-PI)

1. "Establishment of mushroom cultivation unit for demonstration and growth trials of wild and exotic mushrooms" Funded by Endowment Funds Secretariat (EFS), University of Agriculture, Faisalabad (UAF). Amount (Rs. Million) 2.869
2. "Nutritional and Chemical Profiling of wild mushrooms from high altitude of Azad Jammu and Kashmir for their commercial transformation" funded by Higher Education Commission Pakistan. Amount (Rs. Million) 2.120255
3. "Strengthening vegetable value chains in Pakistan for greater community livelihood benefits" funded by Australian Centre for International Agricultural Research (ACIAR). Amount (Rs. Million) 27.84

Publications (Impact Factor)

- **Muhammad Muzammil Jahangir**, Tianjia Jiang, Zhenhui Jiang, Muhammad Amjad and Tiejin Ying. 2011. Effect of spermine on bioactive components and antioxidant properties of sliced button mushroom (*Agaricus bisporus*) during Storage. International Journal of Agriculture & Biology, 13: 771-775. **Impact factor= (0.746)**
- Tianjia Jiang, **Muhammad Muzammil Jahangir**, Zhenhui Jiang, Xianying Lu, Tiejin Ying. 2010. Influence of UV-C treatment on antioxidant capacity, antioxidant enzyme activity and texture of postharvest shiitake (*Lentinus edodes*) mushrooms during storage. Postharvest Biology and Technology. 56 (3) 209-215. **Impact factor= (3.248)**
- Tianjia Jiang, **Muhammad Muzammil Jahangir**, Qiushuang Wang, Tiejin Ying. 2010. Accumulation of Lignin and Malondialdehyde in Relation to Quality Changes of Button Mushrooms (*Agaricus bisporus*) Stored in Modified Atmosphere. Food science and technology international. 16(3) 217-224. **Impact factor= (0.991)**
- Tianjia Jiang, Qiushuang Wang, Shasha Xu, **Muhammad Muzammil Jahangir**, Tiejin Ying. 2010. Structure and composition changes in the cell wall in relation to texture of shiitake mushrooms (*Lentinula edodes*) stored in modified atmosphere packaging. Journal of the Science of Food and Agriculture. 90 (5) 742-749. **Impact factor= (2.463)**
- **Muhammad Muzammil Jahangir**, Muhammad Amjad, Irfan Afzal, Qumer Iqbal and Aamir Nawaz. 2009. Lettuce achene invigoration through osmopriming at supraoptimal temperature. Pakistan journal of agricultural sciences. 46 (1) 1- 6. **Impact factor= (0.609)**
- Qiushuang Wang, Tiejin Ying, Tianjia Jiang, Dongmei Yang and **Muhammad Muzammil Jahangir**. 2009. Demineralization of soybean oligosaccharides extract from sweet slurry by conventional electrodialysis. Journal of Food Engineering. 95 (3) 410-415. **Impact factor= (3.099)**
- Qiushuang Wang, Tiejin Ying, **Muhammad Muzammil Jahangir**, Tianjia Jiang. 2012. Study on removal of coloured impurity in soybean oligosaccharides extracted from sweet slurry by adsorption resins. Journal of Food Engineering. 111. 386–393. **Impact factor= (3.099)**
- Changhong Liu, **Muhammad Muzammil Jahangir**, Tiejin Ying. 2012. Alleviation of chilling injury in postharvest tomato fruit by preconditioning with ultraviolet irradiation. Journal of the science of food and agriculture. 92(15): 3016-22. **Impact factor= (2.463)**
- Muhammad Amjad, Tanveer Ahmad, Qumer Iqbal, Aamir Nawaz and **Muhammad Muzammil Jahangir**. 2013. Herbicide contamination in carrot grown in Punjab, Pakistan. Pakistan Journal of Agricultural Sciences, Vol. 50(1), 7-10. **Impact factor= (0.609)**
- S. Ali, M.A. Farooq, **M.M Jahangir**, F. Abbas, S.A. Bharwana, and G.P. Zhang. 2013. Effect of chromium and nitrogen form on photosynthesis and anti-oxidative system in barley. Biologia Plantarum. 57, (4), 758-763. **Impact factor= (1.551)**
- Muhammad Rizwan Shahid, Muhammad Amjad, Khurram Ziaf, **Muhammad Muzammil Jahangir**, Saeed Ahmad, Qumer Iqbal and Aamir Nawaz. 2013. Growth, yield and

seed production of okra as influenced by different growth regulators. Pakistan Journal of Agricultural Sciences, Vol. 50(3), 387-392. **Impact factor= (0.609)**

- Khurram Ziaf, Asmat Batool, Muhammad Amjad and **Muhammad Muzammil Jahangir**. 2014. Thermal hardening for seed vigour and salt tolerance in cabbage. Pakistan Journal of Agricultural Sciences, Vol. 51(2), 459-466. **Impact factor= (0.609)**

- Muhammad Dawood, Fangbin Cao, **Muhammad Muzammil Jahangir**, Guoping Zhang, Feibo Wu. 2012. Alleviation of aluminum toxicity by hydrogen sulfide is related to elevated ATPase, and suppressed aluminum uptake and oxidative stress in barley. Journal of Hazardous Materials. (209–210) 121–128. **Impact factor= (6.065)**

- Akram, M.T., R.W.K. Qadri, I. Khan, M. Bashir, **M.M. Jahangir**, N. Nisar, and M.M. Khan. 2017. Clonal multiplication of guava (*Psidium guajava* L.) through soft wood cuttings using IBA under low-plastic tunnel. International Journal of Agriculture and Biology, 19: 417–422. **Impact factor= (0.746)**

- Ziaf, K., M.F. Ahmad, M. Amjad, **M.M. Jahangir**, and Q. Iqbal. 2017. Pericarp loosening and reduced lipid peroxidation enhances spinach seed performance and biomass production under normal and saline conditions. Pakistan Journal of Agricultural Sciences, 54(2): 299-309. **Impact factor= (0.609)**

- Abbas, F., Y. Ke, R. Yu, Y. Yue, S. Ammanullah, **M.M. Jahangir** and Y. Fan. 2017. Volatile terpenoids: multiple functions, biosynthesis, modulation and manipulation by genetic engineering. Planta, 246:803–816. **Impact factor= (3.361)**

- Khan, N.A., W. Ahmed, A. Rehman, **M.M. Jahangir** and B. Khan. 2017. Efficiency of oyster mushroom (*Pleurotus columbinus*-P 8) using date palm leaves with combination of wheat straw and cotton waste for its yield improvement. Pak. J. Bot., 49(6): 2459-2464. **(Impact Factor 0.690)**

- Xiaoying Yang, Xiaohui Zhang, Maorun Fu, Qingmin Chen and **Jahangir Muhammad Muzammil**. 2018. Chlorine dioxide fumigation generated by a solid releasing agent enhanced the efficiency of 1-MCP treatment on the storage quality of strawberry. J. Food Sci. Technol., 55(6): 2003-2010. (<http://doi.org/10.1007/s13197-018-3114-1>). **(Impact Factor 1.797)**

- Asif Ali Khan, **Muhammad Muzammil Jahangir**, Muhammad Idrees, Ibadullah Jan, Ghufrana Samin, Anam Zahid, Fozia, Muhammad Ishaq, Wang Peng, Lu Lixin, Fang Ming And Yao Fangjie. 2019. Modulation of agronomic and nutritional response of *pleurotus eryngii* starins by utilizing glycine betaine enriched cotton waste. Journal of the Science of Food and Agriculture. (accepted) Doi:10.1002/jsfa.9977 **(Impact Factor 2.422)**.