

Dr. Mehboob Alam Publications

Impact Factor

1. Javed Nawab, Zia Ud Din, Shah Faisal, Sardar Khan, Abid Ali, Zia ur Rehman, **Mehboob Alam**, Amirzeb Khan, Muhammad Amjad Khan, Khalid Khan and Attaullah Khan. **2021**. Farmlands Degradation with Intensive Agricultural Practices and Human Health Risk Assessment: A Case Study of Province Punjab, Pakistan. (Accepted for publication in *Land Degradation and Development*). (IF: **4.977**).
2. Hazratullah, A. Muhammad, **M. Alam**, I. Ahmad and A. Jalal. **2021**. Role of beneficial microbes with nitrogen and phosphorous levels on canola productivity. *Brazilian Journal of Biology*. 82, e227703. (IF: **1.266**)
3. Fahad Noor, Imran Ahmad, **Mehboob Alam**, Abdullah Jan, Khalid Nawab, Abdullah Jalal, Akhtar Zaman, Asim Muhammad, Shahryar Javed, Haider Mukhtar. **2021**. Ascorbic acid prolongs the post harvest life of persimmon. *Fresenius Environmental Bulletin*. 30(06A): 6615-6622. (IF: **0.553**).
4. Intikhab Alam, **Mehboob Alam**, Anwarzeb Khan, Saeed ul Haq, Aliya Ayaz, Abdul Jalal and Javaid Akhter Bhat. **2021**. Biochar supplementation regulates growth and heavy metal accumulation in tomato grown in contaminated soils. *Physiologia Plantarum*. 1-12. (IF: **4.148**).
5. Zawar Hussain, **Mehboob Alam**, Muhammad Amjad Khan, Muhammad Asif, Muhammad Azhar Shah, Shehnaz Khan, Sardar Khan and Javed Nawab. **2020**. Bioaccumulation of potentially toxic elements in spinach grown on contaminated soils amended with organic fertilizers and their subsequent human health risk. *Arabian Journal of Geosciences*. 13:945. (IF: **1.327**).
6. Masood Ahmad, Muhammad Ishtiaq, Izhar Ullah, Abdul Basit, Sultan Akbar Jadoon, Iftikhar Hussain Khalil, Asim Muhammad, **Mehboob Alam**, Imran Ahmad, Muhammad Sajid, Ghulam Nabi and Abdullah Jalal. **2020**. Influence of Zinc on seed production and fats content of black seed (*Nigella sativa* L.). *Fresenius Environmental Bulletin*. 29(09A): 8094-8103. (IF: **0.553**).
7. Anwarzeb Khan, Sardar Khan, Ming Lei, **Mehboob Alam**, Muhammad Amjad Khan and Ajmal Khan. **2020**. Biochar characteristics, applications and importance in health risk reduction through metal immobilization. *Environmental Technology and Innovation*. 20. 101121. (IF: **3.356**).
8. **Mehboob Alam**, Zawar Hussain, Anwarzeb Khan, Muhammad Amjad Khan, Abdur Rab, Muhammad Asif, Muhammad Azhar Shah and Asim Muhammad. **2020**. The effects of organic amendments on heavy metals bioavailability in mine impacted soil and associated human health risk. *Scientia Horticulturae*. 262. 109067. (IF: **1.961**).
9. **Mehboob Alam**, Khizar Hayat, Izhar Ullah, Muhammad Sajid, Masood Ahmad, Abdul Basit, Imran Ahmad, Asim Muhammad, Sultan Akbar, Zawar Hussain. **2020**. Improving okra (*Abelmoschus esculentus* L.) growth and yield by mitigating

drought through exogeneous application of salicylic acid. *Fresenius Environmental Bulletin*. 29(1):529-535. (IF: 0.691).

10. Tehreem Ayaz, Sardar Khan, Amir Zeb Khan, Ming Lei and **Mehboob Alam**. 2020. Remediation of industrial wastewater using four hydrophyte species: A comparison of individual (pot experiments) and mix plants (constructed wetland). *Journal of Environmental Management*. 255: 109833. (IF: 4.865).
11. Amir Zeb Khan, Sardar Khan, Muhammad Amjad Khan, **Mehboob Alam** and Tehreem Ayaz. 2019. Biochar reduced the uptake of toxic heavy metals and their associated health risk via rice (*Oryza sativa* L.) grown in Cr-Mn mine contaminated soils. *Environmental Technology and Innovation*. 17: 100590 (IF: 2.800).
12. Muhammad Ali Khan, Muhammad Imtiaz, Adil Hussain, Fazal Jalal, Sikandar Hayat, Sayed Hussain, Fazal Said, **Mehboob Alam** and Rabia Amir. 2019. Isolation and functional characterization of an Ethylene Response Factor (RhERF092) from rose (*Rosa hybrida*). *Plant Cell, Tissue and Organ Culture*. 140:157–172 (IF: 2.200).
13. **Mehboob Alam**, Muhammad Ayaz Khan, Muhammad Imtiaz, Muhammad Ali Khan, Muhammad Naeem, Syed Asim Shah, Samiullah, Sayed Hamad Ahmad, Lajbar Khan. 2019. Indole-3-Acetic Acid Rescues Plant Growth and Yield of Salinity Stressed Tomato (*Lycopersicon esculentum* L.). *Gesunde Pflanzen*. :1-9. (IF: 0.789). X
14. Liaqat, A, Ihsan, M. Z., Rizwan, M. S., Mehmood, A., Ijaz, M., **Alam, M.**, Abdullah, M., Wajid, M., Hussain, R., Naeem, M., Yaqub, M. S. 2019. Inducing effect of chitosan on the physiological and biochemical indices of eggplant (*Solanum melongena* L.) genotypes under heat and high irradiance. *Applied Ecology and Environmental Research*. 17(5):11273-11287. (IF: 0.689).
15. **Mehboob Alam**, Shahzeb, Muhammad Amjad Khan, Imran Ahmad, Muhammad Sajid, Majid S. Hashmi, Asim Muhammad and Liaqat Ali. 2019. Microbiological quality of fresh vegetables from selected retail establishments in Peshawar-Pakistan. *Fresenius Environmental Bulletin*. 28(11A):8773-8782. (IF: 0.691).
16. **Mehboob Alam**, Fazal-ur-rehman, Muhammad Ali Khan, Muhammad Sajid, Imran Ahmad, Noor ul Amin, Muhammad Imtiaz, Muhammad Amjad Khan, Wasim Bilal, Babar Hussain, Zakria Bacha and Ahmad Naeem. 2019. Physicochemical attributes of peach fruit as influenced by application of salicylic acid in cold storage. *Fresenius Environmental Bulletin*. 28(10):7058-7068. (IF: 0.691).
17. **Mehboob Alam**, Maaz Khan, Anwarzeb Khan, Shahzeb, Muhammad Amjad Khan, Abdul Mateen Khattak, Noor ul Amin, Muhammad Sajid. 2018. Concentrations, dietary exposure and human health risk assessment of heavy metals in market vegetables of Peshawar, Pakistan. *Environmental Monitoring and Assessment*. 190(9):505. (IF: 1.804).

18. Muhammad Amjad Khan, Sardar Khan, Xiaodong Ding, Anwarzeb Khan and **Mehboob Alam**. 2018. The effects of biochar and rice husk on adsorption and desorption of cadmium on soils with different water conditions (upland and saturated). *Chemosphere*. 193:1120-1126. (IF: 4.208).
19. Muhammad Amjad Khan, Sardar Khan, Anwarzeb Khan and **Mehboob Alam**. 2017. Soil contamination with cadmium, consequences and remediation using organic amendments. *Science of the total environment*. 601-602:1591-1605. (IF: 4.900).
20. **Mehboob Alam**, Fazali Wahid, Imran Ahmad, Ali Raza Gurmani, Muhammad Sajid, Noor ul Amin and Amjad Ali. 2017. Effect of pre-soaking agents on salinity stressed cucumber seedlings. *Pakistan Journal of Agricultural Sciences*. 54(4):801-810. (IF: 1.049).
21. Muhammad Ali Khan, Noor ul amin, Imran Ahmad, Muhammad Sajid, Ibadullah Jan, Abdul Mateen Khattak, Juniad Khan, **Mehboob Alam**, Humaira Wasila and Sikandar Hayat. 2016. Therapeutic horticulture: influencing psychological responses of surgical patients and their environmental assessment scale. *Pakistan Journal of Agriculture Sciences* (53(2): 355-363). (IF: 0.609).
22. Anwarzeb khan, Sardar Khan, **Mehboob Alam**, Muhammad Amjad Khan, Muhammad Aamir, Zahir Qamar, Zahir ur Rehman and Sajida Parveen. 2016. Toxic metal interactions affect the bioaccumulation and dietary intake of macro- and micro-nutrients. *Chemosphere* (146: 121-128). (IF: 4.208).
23. **Alam, M.**, Ahlström, C., Burleigh, S., Olsson, C., Ahrné, S., El-Mogy, M., Molin, G., Jensen, P., Hultberg, M., and Alsanius, B. W. 2014. Prevalence of *E. coli* O157:H7 on spinach and rocket as affected by inoculum density and interval to harvest. *Scientia Horticulturae* (165: 235-241). (IF: 1.624).
24. Alsanius, B.W., **Alam, M.**, Ahlström, C., Sylla, J., Rosberg, A.K., Olsson, C., Mogren, L., Ahrné, S., Molin, G. and Jensen, P. 2021. Microbial community structure of the free water phase in a field irrigation system. (Provisionally accepted for publication in *Science of the Total Environment*). (IF: 4.900).
25. Aneela Shah Bano, Abdul Mateen Khattak, Abdul Basit, **Mehboob Alam**, Syed Tanveer Shah, Naveed Ahmad, Syed Abdul Qadir Gilani, Izhar Ullah, Sumera Anwer, Heba I. Mohamed. Callus induction, proliferation, enhanced secondary metabolites production, and antioxidants activity of *Salvia moorcroftiana* L. as influenced by combinations of auxin, cytokinin, and melatonin. Accepted for publication in *Brazilian Archives of Biology and Technology*.

Non-Impact Factor

1. Islam Zeb and **Mehboob Alam**. 2021. Assessment of heavy metals in irrigation water collected from various vegetables growing areas of swat valley. *Bioscience Research*. 18(2): 1794-1801.

2. Khan, S., F. Aman, M, Ismaeel, Z. Ali, **M. Alam**, S. Iqbal and T. Khan. **2021**. Growth and yield response of pea (*Pisum sativum* L.) cultivars to phosphorus fertilization. *Sarhad Journal of Agriculture*, 37(2): 369-376.
3. Zawar Hussain, **Mehboob Alam**, Izhar Ullah, Imran Ahmad, Muhammad Sajid, Intikhab Alam, Attiq Ur Rehman, Muhammad Azhar Shah and Muhammad Asif. **2020**. Effect of organic and inorganic regimes on growth, production and quality characteristics of cauliflower. *Bioscience research*. 17(2): 1289-1298.
4. Abdul Basit, Hassnain, **Mehboob Alam**, Izhar Ullah, Syed Tanveer Shah, Syed Ali Zuhair and Inayat Ullah. **2020**. Quality indices of tomato plant as affected by water stress conditions and chitosan application. *Pure and Applied Biology*. 9(2): 1364-1375.
5. **Mehboob Alam**, Zawar Hussain, Izhar Ullah, Samiullah, Imran Ahmad, Muhammad Asif, Muhammad Azhar Shah, Syed Qaisar Ali Shah and Johar Raza Khan. **2020**. Effect of growing media on rooting response of tomato (*Lycopersicon esculentum* L.) stem cuttings. *Pure and Applied Biology*. 9(1): 884-896
6. Hassnain, **Mehboob Alam**, Imran Ahmad, Abdul Basit, Izhar Ullah, Noor Alam, Inayat Ullah, Muhammad Areeb Khalid, Bashir Muhammad and Muhammad Shair. **2020**. Efficacy of Chitosan on Performance of Tomato (*Lycopersicon esculentum* L.) Plant under Water Stress Condition. *Pakistan Journal of Agricultural Research*. 33(1): 27-41.
7. Masood Ahmad, Sumbal Ayaz, Sultan Akbar Jadoon, **Mehboob Alam**, Abdur Rab, Iftikhar Hussain Khalil, Gohar Ayub and Hassan Ali. **2019**. Application of maleic hydrazide controlled plant height and ameliorate flower production in local dahlia. *Bioscience Research*. 16(2): 1882-1890.
8. Ibrar Hussain, Sohail Ahmad, Izhar Ullah, Imran Ahmad, **Mehboob Alam**, Sajid Khan, Sumbal Ayaz. **2019**. Foliar application of Chitosan modulates the morphological and biochemical characteristics of tomato. *Asian Journal of Agriculture and Biology*. 7(3): 365-372.
9. Imran Ahmad, Izharullah, Izhar Ullah, Abdul Basit, Rahmat Ullah Khan, **Mehboob Alam**, Fareeda Bibi, Shehryar Javed, Imran Habib Khan, Humaira Wasila and Izhar Ullah. **2019**. Performance of different rootstocks and cultivars on growth and quality components of grafted Tomato. *Bioscience Research*. 16(3): 3241-3250.
10. Zawar Hussain, **Mehboob Alam**, Muhammad Asif, Muhammad Azhar Shah, Shehnaz Khan, Jawad khan. Islam Zeb, Omer Mumtaz, Ahmad Siyab and Arshad Jalal. **2019**. Dipping of pear fruit (*Pyrus communis* L.) in Calcium Chloride may help in prolonging its storability. *Acta Scientific Agriculture*. 3(8): 31-35.

11. Muhammad Zakirullah, Sumayya Innayat, Tariq Jan, Muhammad Arif, Muhammad Ali and **Mehboob Alam**. 2018. The effect of different levels of amino acid and zinc on the quality and quantity of berseem (*Trifolium alexandrium*). *Asian Journal of Agriculture and Biology*. 6(3):379-384.
12. Muhammad Sajid, Abdur Rab, Ijaz Ahmad Khan, Ibadullah Jan, Noor ul Amin, Abdul Mateen, Hamid Usman, **Mehboob Alam**, Syed Tanveer Shah. 2018. The pre-harvest foliar application influenced the flower quality and vase life of chrysanthemum cultivars. *Horticulture International Journal*. 2(4):145-152.
13. Izhar Ullah, Javeed Rahman, Sajid Khan, Imran Ahmad, Noor Ul Amin, Muhammad Sajid, Noor Habib, **Mehboob Alam**, Shah Faisal and Fazal-E-Ahad. 2017. Influence of organic manure on growth and yield of lettuce cultivars. *International Journal of Agricultural and Environmental Research*. 3(3): 260-267.
14. Nadeem Haider, **Mehboob Alam**, Abid Khan, Waseem Haider, Sadiq Hussain and Shah Zeb. 2017. Influence of humic acid application on phenology, leaf area and production duration of okra (*Abelmoschus esculentus* L.) cultivars. *Pure and Applied Biology*. 6(3): 1010-1020.
15. Nadeem Haider, **Mehboob Alam**, Haji Muhammad, Islam Gul, Saeed Ul Haq, Sadiq Hussain and Abdur Rab. 2017. Effect of humic acid on growth and productivity of okra (*Abelmoschus esculentus*) cultivars. *Pure and Applied Biology*. 6(3): 932-941.
16. Ibrar Hussain, Imran Ahmad, Noor ul Amin, **Mehboob Alam**, Abdul Mateen Khattak, Muhammd Sajid, Naveed Ahmad, Humaira Wasila, Abdur Rauf, Muhammad Ali, Muhammad Naeem, Rahmatullah Khan, Syed Mubarak shah, Asad ullah, Syed Asim Shah, Maaz ur Rahman, Sohail Ahmad, Imran Habib Khan and Izhar ullah. 2016. Effect Of Organic Fertilizers On Growth And Yield Of Brassica Rapa Variety Chinensis. *Advances in Environmental Biology*. 10(10): 40-46.
17. Mogren, L., **Alam, M.**, Alsanius, B.W., Boqvist, S. and Vågsholm, I. 2016. Swiss chard (*Beta vulgaris*) produced under greenhouse conditions – effects of water content in the growing media on the content of bioactive compounds and the microbiology of the leaf surface. *Acta Horticulturae*. (ISHS) 1120:381-384.
18. Alsanius, B.W., **Alam, M.**, Larsson, C., Rosberg, A.K., Ahrné, S., Molin , G. and Jensén, P. 2011. Decontamination of irrigation water under field conditions: preliminary results. *Acta Horticulturae*. (ISHS) 922:61-66.

Book/Chapter

1. Beatrix W Alsanius, Sammar Khalil, A. Tadesse, Anna-Karin Rosberg, K. J. Bergstrand, Rahel Hartmann, Lars M Mogren, **Mehboob Alam**, M. Grudén, T.

Naznin and A. Getahun. Sustainable systems for integrated fish and vegetable production: new perspectives on aquaponics. **2019**. Book *Achieving sustainable greenhouse cultivation*.