AAMIR NAWAZ



DEPARTMENT OF HORTICULTURE, FACULTY OF AGRICULTURAL SCIENCES AND TECHNOLOGY, BAHAUDDIN ZAKARIYA UNIVERSITY MULTAN PAKISTAN

Personnel

Father's name	Rab Nawaz Khan
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Marital status	Married
Domicile	Punjab (Rawalpindi)
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Education

B. Sc (Hons.) Horticulture from University of Agriculture Faisalabad (1998).

M. Sc (Hons.) Horticulture from University of Agriculture Faisalabad (2000).

Ph. D (Horticulture) University of Agriculture Faisalabad (2011).

Post-Doctoral Fellowship Worked as at **Seed Science Centre College of Agriculture and Biotechnology, Zhejiang University Hangzhou, China** from April 2014 to November, 2015.

M.Sc. (Hons.) Thesis title

M.Sc. Research Project was " **Establishment of roadside plantation and public perception on roadside plantation at Jhang road Faisalabad**".

Ph.D. Thesis title

"**Physiological enhancements to improve seedling vigour, yield and quality of tomato**".

Positions Held

Working as Associate Professor **(**Since 3rd October, 2016**)** in the Department of Horticulture, Faculty of Agricultural Sciences And Technology, Bahauddin Zakariya University Multan.

Presently

Working as **Professor** Department of Horticulture, Faculty of Agricultural Sciences And Technology, Bahauddin Zakariya University Multan. Since 16 Jan, 2017 to date.

Professional Experience

- Worked as Horticulture Officer in Pak Kuwait Textile Mills Joharabad from Dec 6 to July 2nd 2002.
- Worked as lecturer in University College of Agriculture BZ University Multan since September 2003 to October 2011.
- Working as Assistant Professor from October 2011 todate.
- Worked as Incharge horticulture/ landscaping since July 3, 2002 to September 2006.
- Worked as Assistant Superintendent Hamza hall BZU from September 2002 to September 2005.
- Member organizing committee for 7th Convocation of BZU.
- Member Aforestation Committee.

Workshops/Conferences

- Faculty development workshop from May 16 to June 11 2005 arranged by HEC at BZU Multan.
- Training on "**plant molecular genomics**" in July 2005 at PGRI Islamabad.
- Curriculum development workshop on Mango in October 2004 organized by National IPM program.
- Ist International workshop on Mango and Date palm culture held on 21 to 24 June 2005 at University of Agriculture Faisalabad.
- International symposium on Prospects of Horticultural Industry in Pakistan held at University of Agriculture Faisalabad on April 28th to 30th March 2008.
- Third International conference on Plant Pathology held at University of the Punjab on April 19th to 21th November 2007.
- Workshop on Floriculture and Landscape Management held at University of Agriculture Faisalabad on April 12th 2008.
- Role of Medicinal Plants in Poverty Alleviation held at Institute of Horticultural Sciences
- University of Agriculture Faisalabad on May 2nd 2008.
- Participated in international workshop on Economic use of the post harvest cold chain 19-21 may 2010. held at University of Agriculture Faisalabad
- Training workshop on **Project formulation** from 21st June to 22nd June 2012 arranged by Pakistan Science Foundation at BZU Multan.
- Three days **Cascading of Asian institute of Technology**(AIT), Thailand Based training
- **Recent development in Edible oil Production and processing** with special reference to Pakistan at university college of Agriculture BZU from 12 th March to 13 th March 2012.
- **Statistical Modeling for Improving the Standards of Research and Education** for University Professionals at university college of Agriculture BZU from Jan 23rd to Jan 25th 2012.

- Program "**Ensuring Training Effectiveness**" at university college of Agriculture BZU organized by HEC from 9 th April to 11 th April 2012.
- Training workshop on **Project formulation** from 21st June to 22nd June 2012 arranged by Pakistan Science Foundation at BZU Multan.
- Three days Cascading of Asian institute of Technology (AIT), Thailand Based training Recent development in **Edible oil Production and processing with special reference to Pakistan** at university college of Agriculture BZU from 12th March to 13th March 2012.
- **Statistical Modeling for Improving the Standards of Research and Education for University Professionals** at university college of Agriculture BZU from Jan 23rd to Jan 25th 2012.
- Program **Ensuring Training Effectiveness** at university college of Agriculture BZU organized by HEC from 9th April to 11th April 2012.
- Two days workshop on **Simulation Modeling: A Decision Support System for Agro-Technology Transfer for Improving the Standards of Research** March 04-05, 2013, organized by Department of Agronomy, BZU, Multan.
- National workshop on **UI Green Metric** world university ranking-2018 at Higher Education Commission (HEC), Islamabad, Pakistan from 09 July, 2018.

Awards

- Star Laureate 2004 from South Asia Publications.
- Won Best Hiker of Pakistan Award in Third National Hike organized by National Scouts Headquarter held at galiat in year 2000.
- President Rover Scout Award.

Extra –curricular Activities

- Served as Senior Rover Mate in Rover Scouts Unit
- Participation in National Snow Hike 2000.
- Played in University Hockey Team (1999-2000)

Professional Training

- Civil Defence Course
- First Aid Course
- Basic Unit Leader Course
- Two Winter Snow Fall Tours
- four long Summer hiking and trekking courses

PROJECTS: Won Technology Development Fund entitled "Development Of Low-Cost Living Green Walls Technology for Air Cleaning, Food Security And Aesthetic Gratification Urban Areas Of Pakistan".

M. Phil supervised: 30 students

Ph. D Supervised: 3

Book Chapters

1. Sajid Ali, **Aamir Nawaz**, Safina Naz, Shaghef Ejaz. 2024. Application of ROS, RNS, and RSS for prolonging the shelf-life of horticultural crops via the control of postharvest bacterial infections. Oxygen, Nitrogen and Sulfur Species in Post-Harvest Physiology of Horticultural Crops, Publisher: Elsevier, Vol.: 1st, Issue: 1st, Pages: 341-367.
2. Sajid Ali, Samina Khalid, Mahmood Ul Hasan, **Aamir Nawaz**, Safina Naz, Shaghef Ejaz. 2024. Role of hydrogen sulfide in regulating postharvest horticultural crops quality. H2S in Plants Past, Present and Beyond, Publisher: Elsevier, Vol.: 1st, Issue: 1st, Pages: 335-353.
3. Sajid Ali, **Aamir Nawaz**, Safina Naz, Shaghef Ejaz, Sajjad Hussain, and Raheel Anwar. 2022. Decontamination of microgreens. Microbial Decontamination of Food, Publisher: Springer, Vol.: 1st, Issue: 1st, Pages:125-143.
4. Sajid Ali, Muhammad Akbar Anjum, **Aamir Nawaz**, Safina Naz, Hasan Sardar and Mahmood Ul Hasan. 2021. Hydrogen sulfide regulates temperature stress in plants. Hydrogen Sulfide in Plant Biology, Past and Present, Publisher: Elsevier, Vol.: 1st, Issue: 1st, Pages: 1-24.
5. Sajid Ali, Muhammad Akbar Anjum, **Aamir Nawaz**, Safina Naz, Shaghef Ejaz, Shakeel Ahmad and Sajjad Hussain. 2021. Role of reactive nitrogen species in mitigating organic pollutant induced plant damages. Handbook of Bioremediation Physiological, Molecular and Biotechnological Interventions, Publisher: Elsevier, Vol.:1st, Issue: 1st, Pages: 493-503.
6. Sajid Ali, Shaghef Ejaz, Muhammad Akbar Anjum, **Aamir Nawaz**, Shakeel Ahmad. 2020. Impact of climate change on postharvest physiology of edible plant products. Plant Ecophysiology and Adaptation under Climate Change Mechanisms and Perspectives I, Publisher: Springer, Vol.: 1st, Issue: 1st, Pages: 87-115**.**
7. Hussain, S., Khalid, M. F., Hussain, M., Ali, M. **A., Nawaz**, A., Zakir, I., and Ahmad, S. 2018. Role of Micronutrients in Salt Stress Tolerance to Plants. In Plant Nutrients and Abiotic Stress Tolerance (pp. 363-376). Springer, Singapore.

Research Papers/Publications

1. Sajid Ali, Syed Muhammad Kashan Haider, Safina Naz, Hafiz Umer Javed, **Aamir Nawaz**, Shaghef Ejaz, Muhammad Shahzad Saleem. 2026. Exogenous dopamine alleviates chilling injury of sapodilla (Manilkara zapota) fruit by modulating reactive oxygen species and ascorbate-glutathione cycle activities. Postharvest Biology and Technology, Publisher: Elsevier BV, Vol.: 241, Issue: 11, Pages: 114512.

2. Hasan Sardar, Muhammad Waqas, **Aamir Nawaz**, Safina Naz, Sajid Ali,

Shaghef Ejaz, Riaz Ahmad, Ayman A. Ghfar, Saikh M. Wabaidur, Sami Abou Fayssal. 2025. Amendment of Tomato (Lycopersicon esculentum L.) Grown in Calcareous Soil with Spent Mushroom Substrate-derived Biochar: Improvement of Morphological, Biochemical, Qualitative Attributes, and Antioxidant Activities. Journal of Soil Science and Plant Nutrition, Publisher: Springer Science and Business Media LLC, Vol.: 24, Issue: 1, Pages: 1-17.

3. Sajid Ali, Rana Naveed Ur Rehman, Ahmad Sattar Khan, **Aamir Nawaz**, Safina Naz, Ghulam Khaliq, Muhammad Wasim Haider. 2025. Combined sodium alginate and glutathione treatment delays water chestnut (Trapa natans L.) browning by regulating oxidative stress and ascorbate glutathione cycle. International Journal of Biological Macromolecules, Publisher: Elsevier BV, Vol.: 319, Issue: 8, Pages: 145419.

4. Shaista Gull, Shaghef Ejaz, Sajid Ali, Muhammad Moaaz Ali, Sajjad Hussain, Hasan Sardar, Muhammad Azam, **Aamir Nawaz**, Safina Naz, Mehdi Maqbool. 2024. A novel edible coating based on Albizia Albizia lebbeck L. Benth. gum delays softening and maintains quality of harvested guava fruits during storage. International Journal of Biological Macromolecules, Publisher: Elsevier, Vol.: 277, Issue: 10, Pages: 134096.

5. Farrakh Naveed, **Aamir Nawaz**, Sajid Ali, Shaghef Ejaz, Muhammad Shahzad Saleem. 2024. Almond gum based hydrocolloid coating delays surface reddening and suppresses softening of harvested jujube Ziziphus mauritiana L. fruit. Progress in Organic Coatings, Publisher: Elsevier, Vol.: 194, Issue: 9, Pages: 108554.

6. Sajid Ali, **Aamir Nawaz**, Bushra Hussain, Shaghef Ejaz, Hasan Sardar. 2024. Carboxymethyl cellulose coating maintains quality of harvested aonla fruit by regulating oxidative stress and ascorbate-glutathione cycle. Postharvest Biology and Technology, Publisher: Elsevier, Vol.: 207, Issue: 1, Pages: 112621.

7. Sajid Ali, Sana Ishtiaq, **Aamir Nawaz**, Safina Naz, Shaghef Ejaz, Muhammad Wasim Haider, Anis Ali Shah, Muhammad Moaaz Ali, Sumera Javad. 2024. Layer by layer application of chitosan and carboxymethyl cellulose coatings delays ripening of mango fruit by suppressing cell wall polysaccharides disassembly. International Journal of Biological Macromolecules, Publisher: Elsevier, Vol.: 256, Issue: 1, Pages: 128429.

8. Farrakh Naveed, **Aamir Nawaz**, Sajid Ali, Shaghef Ejaz. 2024. Xanthan gum coating delays ripening and softening of jujube fruit by reducing oxidative stress and suppressing cell wall polysaccharides disassembly. Postharvest Biology and Technology, Publisher: Elsevier, Vol.: 209, Issue: 3, Pages: 112689.

9. Syed Ali Qasim Bukhari, **Aamir Nawaz**, Muhammad Dawood. 2023. Evaluation of phytoremediation potential and resistance of Gladiolus grandiflora L. against cadmium stress. Environ Geochem Health.

10. Sajid Ali, Ahmad Sattar Khan, **Aamir Nawaz**, Safina Naz, Shaghef Ejaz, Anis Ali Shah, Muhammad Wasim Haider. 2023. The combined application of Arabic gum coating and gamma aminobutyric acid mitigates chilling injury and maintains eating quality of Kinnow mandarin fruits. International Journal of Biological Macromolecules, Publisher: Elsevier, Vol.: 236, Issue: 5, Pages: 123966.

11. Sajid Ali, Ahmad Sattar Khan, **Aamir Nawaz**, Safina Naz, Shaghef Ejaz, Sami Ullah. 2023. Glutathione application delays surface browning of fresh-cut lotus Nelumbo nucifera Gaertn. root slices during low temperature storage. Postharvest Biology and Technology, Publisher: Elsevier, Vol.: 200, Issue: 6, Pages: 112311.

12. Sajid Ali, **Aamir Nawaz**, Safina Naz, Maratab Ali, Shaghef Ejaz, Muhammad Azam, Kashif Razzaq. 2023. Exogenous melatonin mitigates chilling injury in zucchini fruit by enhancing antioxidant system activity, promoting endogenous proline and GABA accumulation, and preserving cell wall stability. Postharvest Biology and Technology, Publisher: Elsevier, Vol.: 204, Issue: 10, Pages: 112445.

13. Hasan Sardar, Muhammad Muzammil Bashir, Safina Naz, **Aamir Nawaz**, Riaz Ahmad, Shaghef Ejaz, Sajid Ali, Sadeq K. Alhag, Laila A. Al-Shuraym. 2023. Melatonin mitigates adverse effects of salinity in stevia through physiological and biochemical adjustments. Scientia Horticulturae, Publisher: Elsevier, Vol.: 322, Issue: 12, Pages: 112390.

14. Rashid Jawad, **Aamir Nawaz**, Shaghef Ejaz, Sajid Ali, Muhammad Shahzad Saleem, Hafiz Mohkum Hammad. 2023. Rashid Jawad, Aamir Nawaz, Shaghef Ejaz, Sajid Ali, Muhammad Shahzad Saleem, Hafiz Mohkum Hammad. Environmental Science and Pollution Research, Publisher: Springer, Vol.: 30, Issue: 1, Pages: 41970-41982.

15. Mubashir Islam, Sajid Ali, **Aamir Nawaz**, Safina Naz, Shaghef Ejaz, Anis Ali Shah, Kashif Razzaq. 2022. Postharvest 24-epibrassinolide treatment alleviates pomegranate fruit chilling injury by regulating proline metabolism and antioxidant activities. Postharvest Biology and Technology, Publisher: Elsevier, Vol.: 188, Issue: 6, Pages: 111906.

16. Sajid Ali, Naima Zahid, **Aamir Nawaz**, Safina Naz, Shaghef Ejaz, Sami Ullah, Bushra Siddiq 2022. Tragacanth gum coating suppresses the disassembly of cell wall polysaccharides and delays softening of harvested mango Mangifera indica L. fruit. International Journal of Biological Macromolecules, Publisher: Elsevier, Vol.: 222, Issue: 12, Pages: 521-532.

17. Muhammad Saleem Shakir, Shaghef Ejaz, Sajjad Hussain, Sajid Ali, Hasan Sardar, Muhammad Azam, Sami Ullah, Ghulam Khaliq, Muhammad Shahzad Saleem, **Aamir Nawaz**, Muhammad Akbar Anjum, Ihsan Canan. 2022. Synergistic effect of gum Arabic and carboxymethyl cellulose as biocomposite coating delays senescence in stored tomatoes by regulating antioxidants and cell wall degradation. International Journal of Biological Macromolecules, Publisher: Elsevier, Vol.: 201, Issue: 3, Pages: 641-652.

18. Muhammad Shahzad Saleem, Shaghef Ejaz, Muhammad Akbar Anjum, Sajid Ali, Sajjad Hussain, **Aamir Nawaz**, Safina Naz, Mehdi Maqbool, Abdul Manan Abbas. 2022. Aloe vera gel coating delays softening and maintains quality of stored persimmon Diospyros kaki Thunb Fruits. Journal of Food Science and Technology, Publisher: Springer, Vol.: 59, Issue: 8, Pages: 3296-3306.

19. Sajid Ali, Muhammad Atif Ullah, **Aamir Nawaz**, Safina Naz, Anis Ali Shah, Gholamreza Gohari, Farhang Razavi, Ghulam Khaliq, Kashif Razzaq. 2022. Carboxymethyl cellulose coating regulates cell wall polysaccharides disassembly and delays ripening of harvested banana fruit. Postharvest Biology and Technology, Publisher: Elsevier, Vol.: 191, Issue: 9, Pages: 111978.

20. Sajid Ali, Muhammad Akbar Anjum, Ahmad Sattar Khan, Aamir Nawaz, Shaghef Ejaz, Ghulam Khaliq, Shahid Iqbal, Sami Ullah, Rana Naveed Ur Rehman, Muhammad Moaaz Ali, Muhammad Shahzad Saleem. 2022. Carboxymethyl cellulose coating delays ripening of harvested mango fruits by regulating softening enzymes activities. Food Chemistry, Publisher: Elsevier,

Vol.: 380, Issue: 6, Pages: 131804.

21. Sajid Ali, Muhammad Akbar Anjum, **Aamir Nawaz**, Shaghef Ejaz, Raheel Anwar, Ghulam Khaliq, Sajjad Hussain, Sami Ullah, Rizwan Hussain, Muhammad Shahzad Saleem, Mahmood Ul Hasan. 2022. Postharvest gamma aminobutyric acid application mitigates chilling injury of aonla Emblica officinalis Gaertn. fruit during low temperature storage. Postharvest Biology and Technology, Publisher: Elsevier, Vol.: 185, Issue: 3, Pages: 111803.

22. Sajid Ali, **Aamir Nawaz**, Sana Naz, Shaghef Ejaz, Mehdi Maqbool, Manzer H. Siddiqui, Hazem M. Kalaji, Jacek Wrbel, Arkadiusz Telesinski, Alicja Auriga. 2022. Hydrogen sulde mitigates chilling injury of postharvest banana fruits by regulating gamma aminobutyric acid shunt pathway and ascorbate clutathione cycle. Frontiers in Plant Science, Publisher: Frontiers, Vol.: 13, Issue: 8, Pages: 941246.

23. Sajid Ali, Ahmad Sattar Khan, Aman Ullah Malik, Raheel Anwar, Muhammad Akbar Anjum, **Aamir Nawaz**, Muhammad Shafique, Safina Naz. 2021. Combined application of ascorbic and oxalic acids delays postharvest browning of litchi fruits under controlled atmosphere conditions. Food Chemistry, Publisher: Elsevier, Vol.: 350, Issue: 7, Pages: 129277.

24. Sajid Ali, Muhammad Akbar Anjum, **Aamir Nawaz**, Safina Naz, Shaghef Ejaz, Muhammad Shahzad Saleem, Sakeena Tul- Ain Haider, Mahmood Ul Hasan. 2021. Effect of gum arabic coating on antioxidative enzyme activities and quality of apricot Prunus armeniaca L. fruit during ambient storage. Journal of Food Biochemistry, Publisher: Wiley, Vol.: 45, Issue: 2, Pages: 1-13.

25. Sajid Ali, Muhammad Akbar Anjum, **Aamir Nawaz**, Sana Naz, Shaghef Ejaz, Hasan Sardar, Bushra Saddiq. 2020. Tragacanth gum coating modulates oxidative stress and maintains quality of harvested apricot fruits. International Journal of Biological Macromolecules, Publisher: Elsevier, Vol.: 163, Issue: 11, Pages: 2439-2447

26. Hasan Sardar, Muhammad Akbar Anjum, **Aamir Nawaz**, Safina Naz, Shaghef Ejaz, Sajid Ali, SakeenaTul-Ain Haider. 2020. Effect of different agro-wastes, casing materials and supplements on the growth, yield and nutrition of milky mushroom Calocybe indica. Folia Horticulturae, Publisher: Polish Society for Horticultural Science , Vol.: 32, Issue: 1, Pages: 115124.

27. Sajid Ali, Ahmad Sattar Khan, Muhammad Akbar Anjum, **Aamir Nawaz**, Sana Naz, Shaghef Ejaz, Sajjad Hussain. 2020. Eect of postharvest oxalic acid application on enzymatic browning and quality of lotus Nelumbo nucifera Gaertn. root slices. Food Chemistry, Publisher: Elsevier, Vol.: 312, Issue: 5, Pages: 126051.

28. Sajid Ali, Anne Plotto, Brian T. Scully, David Wood, Ed Stover, Nancy Owens, Cristina Pisani, Mark Ritenour, Muhammad Akbar Anjum, **Aamir Nawaz**, Sana Naz, Jinhe Bai. 2020. Fatty acid and volatile organic compound proling of avocado germplasm grown under East-Central Florida conditions. Scientia Horticulturae, Publisher: Elsevier, Vol.: 261, Issue: 2, Pages: 109008.

29. Sajid Ali, Muhammad Akbar Anjum, **Aamir Nawaz**, Safina Naz, ajjad Hussain, Shaghef Ejaz, Hasan Sardar. 2020. Effect of pre-storage ascorbic acid and Aloe vera gel coating application on enzymatic browning and quality of lotus root slices. Journal of Food Biochemistry, Publisher: Wiley, Vol.: 44, Issue: 1, Pages: e13136.

30. Muhammad Shahzad Saleem, Shaghef Ejaz, Muhammad Akbar Anjum, **Aamir Nawaz**, Safina Naz, Sajjad Hussain, Sajid Ali, Ihsan Canan. 2020. Postharvest application of gum Arabic edible coating delays ripening and maintains quality of persimmon fruits during storage. Journal of Food Processing and Preservation, Publisher: Wiley, Vol.: 44, Issue: 8, Pages: e14583

31. Ali, S., A. S. Khan, A. U. Malik, M. A. Anjum, **A. Nawaz** and H. M. S. Shah. 2019. Modified atmosphere packaging delays enzymatic browning and maintains quality of harvested litchi fruit during low temperature storage. Scientia Horticulturae, 254: 14-20. **Impact Factor. 1.76**

32. Ali, Sajid., **A. Nawaz**, S. Ejaz, S. T. A. Haider, M. W. Alam and H. U. Javed. 2019. Effects of hydrogen sulfide on postharvest physiology of fruits and vegetables: An overview, Scientia Horticulturae, 243: 290-299. **Impact Factor. 1.76**

33. Ali, S., A. S. Khan, A. U. Malik, **A. Nawaz** and M. Shahid. 2019. Postharvest application of antibrowning chemicals modulates oxidative stress and delays pericarp browning of controlled atmosphere stored litchi fruit. Journal of Food Biochemistry, 1-14. **Impact Factor. 1.55**

34. Qamar. J., S. Ejaz, M. A. Anjum, **A. Nawaz**, S. Hussain, S. Ali and S. Saleem. 2018. Effect of Aloe vera Gel, Chitosan and Sodium Alginate Based Edible Coatings on Postharvest Quality of Refrigerated Strawberry Fruits of cv. Chandler. Journal of Horticultural Science and Technology, 1(1): 8-16.

35. Farooq, M. A., K. Zhang, F. Islam, J. Wang, H R. Athar, **A. Nawaz**, Z. Zafar, J. Xu, and W. Zhou 2018. Physiological and iTRAQ-Based Quantitative Proteomics Analysis of Methyl Jasmonate–Induced Tolerance in Brassica napus Under Arsenic Stress. Proteomics. 18(10): 1-13. **Impact Factor. 4.04.**

36. Nawaz, A., M. S. S., S. M. Khan, Q. Hu, Y. Guan, S. A. H. Bukhari, Y. Luo and J. Hu. 2017. Optimization of germination inhibitors for controlling pre-harvest sprouting in hybrid rice. Pakistan Journal of Agricultural Sciences 54(2): 261-270. **Impact Factor. 1.04**

37. Nawaz, A., M. S. Sheteiwy, S. M. Khan, S. A. H. Bukhari, M. Dawood, Y. Guan and J. Hu. 2017. Exploring the Mechanism of Exogenous Applied Methyl Jasmonate for Germination Inhibition in Hybrid Rice. Pakistan Journal of Life and Social Sciences. 15(1): 60-71.

38. Farooq M.A., F. Islam, C. Yang, **A. Nawaz**, H. Athar, R.A. Gill, B. Ali, W.J. Song, W.J. Zhou. 2017. Methyl jasmonate alleviates arsenic-induced oxidative damage and modulates the ascorbate–glutathione cycle in oilseed rape roots. Plant Growth Regulation. **Impact Factor. 2.74**

39. Afzal, I., A. Rahim, M. Qasim, A. Younis, **A. Nawaz**, M. A. Bakhtavar. 2017. Inducing salt tolerance in french marigold (*Tagetes patula*) through seed priming. Acta Sci. Pol. Hortorum Cultus, 16(3): 109–118. **Impact Factor. 0.53**

40. Hasan S., M. A. Anjum, **A. Nawaz**, S. Ejaz, M. A. Ali, N.A. Khan, F. Nawaz, M. Raheel. 2016. Impact of various agro-industrial wastes on yield and quality of *Pleurotus sajor-caju*. Pak. J. Phytopathol., 28, 1: 87-92.

41. Theodore M., M, L. Li, R. A. Gill, F. Islam, **A. Nawaz**, B. Ali, M. A. Farooq, J. L. Lwalaba, W. Zhou. 2106. Differential subcellular distribution and chemical forms of cadmium and copper in *Brassica napus*. Ecotoxicology and Environmental Safety 134 (2016) 239-249. **Impact Factor. 3.74**

42. Qumer I., M. Amjad, M. R. Asi, **A. Nawaz**, S. M. Khan, A. Arino and T. Ahmad. 2016. Irradiation Maintains Functional Components of Dry Hot Peppers (*Capsicum annuum* L.) under Ambient Storage. Foods, 5, 63.

43. Sheteiwy, M. S., Y. Fu, Q. Hu, **A. Nawaz**, Y. Guan, Z. Li, Y. Huang, J. Hu. 2016. Seed priming with polyethylene glycol induces antioxidative defense and metabolic regulation of rice under nano-ZnO. Environmental Science and Pollution Research. 23(19): 19989–20002. **Impact Factor. 2.74**

44. Zhu, L., D. Cao, Q. Hu, Y. Guan, W. Hu, **A. Nawaz** and J. Hu. 2015. Physiological changes and sHSPs genes relative transcription in relation to the acquisition of seed germination during maturation of hybrid rice seed. Journal of the Science of Food and Agriculture. 96: 5, 1764-1771. **Impact Factor. 2.46**

45. Sheteiwy, M.S., J. Li, D. Cao, **A. Nawaz**, Q. Hu, Y. Guan, W. Hu and Jin Hu. 2015. Seed priming with Poly Ethylene Glycol (PEG) regulating the physiological and molecular mechanism in rice (Oryza sativa L.) seedlings under nano-ZnO stress. Scientific Reports. 5: 1-14. **Impact Factor. 5.57**

46. Ali, M.A., S.M. Khan, **A. Nawaz**, Q. Iqbal, T. Ahmed and U.D. Umar. 2015. Mycelial growth and primordial initiation of *Agaricus bitorquis* and related species on agar media. Pakistan Journal of Life and Social Sciences, 13(1): 42-48.

47. Iqbal, Q., M. Amjad, M.R. Asi, A. Arino, K. Ziaf, **A. Nawaz** and T. Ahmad. 2015. Stability of capsaicinoids and antioxidants in dry hot peppers under different packaging and storage temperatures. Foods, 4: 51-64.

48. Ahmad. T., M. Amjad, Q. Iqbal, **A. Nawaz** and Z. Iqbal. 2014. Integrated nutrient management practices improve growth and yield of carrot. Bulgarian Journal of Agricultural Science, 20 (6): 1475-1483. **Impact Factor. 0.22**

49. Ghani, M.A., M. Amjad, Q. Iqbal, **A. Nawaz**, T. Ahmad, O.B.A. Hafeez and M. Abbas. 2013. Efficacy of plant growth regulators on sex expression, earliness and yield components in bitter gourd. Pakistan Journal of Life and Social Sciences, 11(3): 218-224.

50. Shahid, M.R., M. Amjad, K. Ziaf, M.M. Jahangir, S. Ahmad, Q. Iqbal and **A. Nawaz**. 2013. Growth, yield and seed production of okra as influenced by different growth regulators. Pakistan Journal of Agricultural Sciences, 50(3): 387-392. **Impact Factor. 1.04.**

51. Nawaz A., M. Amjad, S.M. Khan, I. Afzal, T. Ahmed, Q. Iqbal and J. Iqbal. 2013. Tomato seed invigoration with cytokinins. Journal of Animal and Plant Sciences, 23(1): 121-128. **Impact Factor. 0.42.**

52. Amjad, M., T. Ahmad, Q. Iqbal, **A. Nawaz** and M.M. Jahangir. 2013. Herbicide contamination in carrot grown in Punjab, Pakistan. Pakistan Journal of Agricultural Sciences, 50(1): 1-4. **Impact Factor. 1.04.**

53. Khan, S.M. **A. Nawaz**, M.A. Ali, T. Ahmad, N.A. Khan and Atiq-Ur-Rehman. 2012. Response of oyster mushroom on different agricultural wastes of southern Punjab. Pakistan Journal of Agricultural Sciences, 49(2): 127-130. **Impact Factor. 1.04.**

54. Ahmad, T., M. Amjad, **A. Nawaz**, Q. Iqbal and J. Iqbal. 2012. Socio-economic study of carrot cultivation at farm level in the Punjab Province of Pakistan. African Journal of Agricultural Research, 7(6): 867-875. **Impact Factor. 0.21.**

55. Nawaz, A., M. Amjad, M.M. Jahangir, S.M. Khan, H. Cui and J. Hu. 2012. Induction of salt tolerance in tomato (*Lycopersicon esculentum* Mill.) seeds through sand priming. Australian Journal of Crop Science, 6(7): 1199-1203. **Impact Factor. 1.96.**

56. Khan, S.M., **A. Nawaz**, W. Malik, N. Javed, T. Yasmin, M. Rehman, A. Qayyum, Q. Iqbal, T. Ahmad and A.A. Khan. 2011. Morphological and molecular characterization of Oyster mushroom (*Pleurotus spp*.) African Journal of Biotechnology, 10(14): 2638-2643. **Impact Factor. 0.51.**

57. Nawaz, A., M. Amjad, M.A. Pervez and I. Afzal. 2011. Effect of halopriming on germination and seedling vigor of tomato. African Journal of Agricultural Research, 6(15): 3551-3559. **Impact Factor. 0.21.**

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