

CURRICULUM VITAE

NASIM AHMAD YASIN

University of the Punjab, Lahore
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 - + **Nationality:** Pakistan
 - + **Date of Birth:** 25-03-1973 Nasim Ahmad Yasin
 - + **Domicile:** Islamabad
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QUALIFICATION

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- + **2015:** Ph. D: **Thesis Title:** Studies on Induction of Systemic Resistance in Rose by Pseudomonas and Bacillus Strains against *Diplocarpon rosae*.
Institute of Agricultural Sciences: University of the Punjab Lahore.
 - + **1997:** M. Sc. (Hon) Horticulture. **Thesis Title:** Effect of Special Pruning Practices on Vegetative and Reproductive Growth of Apple.
University College of Agriculture, Rawalakot: The University of Azad Jammu and Kashmir –Muzaffarabad Azad Kashmir (1st division).
 - + **1995:** B. Sc. (Hon) Horticulture. Barani Agriculture College, Rawalpindi. University of Agriculture, Faisalabad (1st division).

JOB HISTORY

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- + Working as **Senior Superintendent Garden** in *University of the Punjab Lahore* since August 3, 2012 to date.
 - + Worked as **Superintendent Garden** in *University of the Punjab Lahore* from July1, 2003 to January 8, 2009.

- ✚ Worked as **Visiting Lecturer** in Institute of Mycology and Plant Pathology, *University of the Punjab, Lahore* from September 2005 to February 2008.
- ✚ Worked as part time **Nursery In-charge, Floriculture Research Farm** in University of the Punjab for one year from January1, 2007 to 2008.
- ✚ Worked as **Assistant Manager Horticulture** in *SUPARCO* for six months.
- ✚ Worked as **Manager Operations** in *Horti Group* Lahore from January 9, 1998 to July17, 2000.
- ✚ Worked as **Horticulturist** in *AgriBiotech*, Lahore from August1, 2000 to May30, 2003.
- ✚ Worked as part time **Horticulturist** in different organizations.
- ✚ Worked as **Honorary Lecturer** in *University College of Agriculture, The University of Azad Jammu and Kashmir* during 1996-97.

RESEARCH PUBLICATIONS

RESEARCH INTEREST: Plant sciences, Agriculture Sciences, Plant Stress Physiology, Phytoremediation, Plant Microbe Interaction, Bio-fertilizers, Bio-pesticides.

- ✚ **Total Published Manuscripts: 66**
- ✚ **Manuscripts as Principal Author (First Author/ Corresponding Author)= 36**
- ✚ **Impact Factor: 194.96**

2021

- 1.Sardar, R., Ahmed, S., & **Yasin, N. A***. (2021). Titanium dioxide nanoparticles mitigate cadmium toxicity in *Coriandrum sativum* L. through modulating antioxidant system, stress markers and reducing cadmium uptake. *Environmental Pollution*. (IF: 8.07).
- 2.Ahmad, A., Khan, W. U., Shah, A. A., **Yasin, N. A***, Ali, A., Rizwan, M., & Ali, S. (2021). Dopamine Alleviates Hydrocarbon Stress in *Brassica Oleracea* through Modulation of Physio-Biochemical Attributes and Antioxidant Defense Systems. *Chemosphere*, 128633. <https://doi.org/10.1016/j.chemosphere.2020.128633>. (IF: 7.08).
3. Akram, K., Ahmad, A., **Yasin, N.A.**, Anjum, T., Ali, B., Fatima, S., Ahmed, S., Simirgiotis, J.M., & Li, G. (2021) Mechanical strengthening and metabolic re-modulations are involved in protection against Fusarium wilt of tomato by *B. subtilis* IAGS174, *Journal of Plant Interactions*, 16:1, 411-421, DOI: [10.1080/17429145.2021.1966107](https://doi.org/10.1080/17429145.2021.1966107). (IF: 2.99).
- 4.**Akram, W., Yasin, N.A*, ...et al. 2021. Exogenous application of liquiritin alleviated salt stress and improved growth of Chinese kale plants. Scientia Horticulturae.** (IF: 3.46)
- 5.Li, G., Shah, A. A., Khan, W. U., **Yasin, N. A***, Ahmad, A., Abbas, M., ... & Safdar, N. (2021). Hydrogen sulfide mitigates cadmium induced toxicity in *Brassica rapa* by modulating physiochemical attributes, osmolyte metabolism and antioxidative machinery. *Chemosphere*, 2 (63). 127999. <https://doi.org/10.1016/j.chemosphere.2020.127999>. (IF: 7.08).
- 6.Shahzadi, I., **Yasin, N.A***, ...(2021). Heavy metal and organic pollutants removal from water using FEBT-PDM21 MOF composite of sandwiched cellulose graphene nanosheets: one solution for two obstacles. *Separation and Purification Technology*. <https://doi.org/10.1016/j.seppur.2021.119711> (IF: 7.31)

7. Ahmad, A., Khan, W. U., Shah, A. A., **Yasin, N. A***, Naz, S., Ali, A., & Tahir, A. (2021). Synergistic effects of nitric oxide and silicon on promoting plant growth, oxidative stress tolerance and reduction of arsenic uptake in *Brassica juncea*. *Chemosphere*, 128384. <https://doi.org/10.1016/j.chemosphere.2020.128384>. (IF: 7.08).
8. Ahmad, A., Shahzadi, I., Mubeen, S., **Yasin, N. A.**, Akram, W., Khan, W. U., & Wu, T. (2021). Karrikinolide alleviates BDE-28, heat and Cd stressors in *Brassica alboglabra* by correlating and modulating biochemical attributes, antioxidative machinery and osmoregulators. *Ecotoxicology and Environmental Safety*, 213, 112047. <https://doi.org/10.1016/j.ecoenv.2021.112047>. (IF: 6.29).
9. Ramazan, M., Sana, S., Javed, N., **Yasin, N.A.** ... (2021). Mitigation of Bacterial Spot Disease Induced Biotic Stress in *Capsicum annum* L. cultivars via Antioxidant Enzymes and Isoforms. *Scientific Reports*. 11(1), 1-10. (IF: 3.99).
10. Shah, A. A., **Yasin, N. A***, Akram, K., Ahmad, A., Khan, W. U., Akram, W., & Akbar, M. (2021). Ameliorative role of *Bacillus subtilis* FBL-10 and silicon against lead induced stress in *Solanum melongena*. *Plant Physiology and Biochemistry*, 158, 486-496. <https://doi.org/10.1016/j.plaphy.2020.11.037>. (IF: 4.27).
11. Shah, A.A., Azna, **Yasin, N.A***, Ahmed, S., Abbas, M., Abbasi, G.H. (2021). 4-Hydroxymelatonin alleviates nickel stress, improves physiochemical traits of *Solanum melongena*: Regulation of polyamine metabolism and antioxidative enzyme. *Scientia Horticulturae*. <https://doi.org/10.1016/j.scienta.2021.110036>. (IF: 3.46).
12. Jaleel, W., Li, Q., Shi, Q., Qi, G., Latif, M., Ali, S., ... & He, **Yasin, N.A.**....2021. Using GCMS to find out the volatile components in the aroma of three different commercial fruits in China. *JAPS: Journal of Animal & Plant Sciences*, 31(1). <https://doi.org/10.36899/JAPS.2021.1.0204>. (IF: 0.49).
13. Hu, X., Chen, J.,..... **Yasin, N.A.**..... 2021. Metabolomic and pharmacologic insights of aerial and underground parts of *Glycyrrhiza uralensis* Fisch. for maximum utilization of medicinal resources. *Frontiers in Pharmacology*. 12, 1306. (IF: 5.8).
14. Tariq, M., Shah, A. A., **Yasin, N. A***, Ahmad, A., & Rizwan, M. (2021). Enhanced performance of *Bacillus megaterium* OSR-3 in combination with putrescine ameliorated hydrocarbon stress in *Nicotiana tabacum*. *International Journal of Phytoremediation*, 1-11. <https://doi.org/10.1080/15226514.2020.1801572>. (IF: 3.2).
15. Shah, A. A., Aslam, S., Akbar, M., Ahmad, A., Khan, W. U., **Yasin, N. A***, ... & Ali, S. (2021). Combined effect of *Bacillus fortis* IAGS 223 and zinc oxide nanoparticles to alleviate cadmium phytotoxicity in *Cucumis melo*. *Plant Physiology and Biochemistry*. <https://doi.org/10.1016/j.plaphy.2020.11.011>. (IF: 4.27)
16. Ahmad, A., **Yasin, N. A.**, Khan, W. U., Akram, W., Wang, R., Shah, A. A., ... & Wu, T. (2021). Silicon assisted ameliorative effects of iron nanoparticles against cadmium stress: Attaining new equilibrium among physiochemical parameters, antioxidative machinery, and osmoregulators of *Phaseolus lunatus*. *Plant Physiology and Biochemistry*. (IF: 4.27)
17. Faiz, S., **Yasin, N. A***, Khan, W. U., Shah, A. A., Akram, W., Ahmad, A., ... & Riaz, L. (2021). Role of magnesium oxide nanoparticles in the mitigation of lead-induced stress in *Daucus carota*: modulation in polyamines and antioxidant enzymes. *International Journal of Phytoremediation*, 1-9. (IF: 3.2).
18. Hussain, R., Shah, A. I., Nijabat, A., Naveed, N. H., Afreen, N., **Yasin, N. A.**, ... & Ali, A. (2021). Screening of phytochemical and antibacterial activity of *Ginkgo biloba* l. extract

against different pathogenic bacterial strains. *Fresenius Environmental Bulletin*, 30(4 A), 4205-4209. (IF: 0.553).

19. Akram, W., Khan, W. U., Shah, A. A., **Yasin, N. A***. & Li, G. Liquiritoside alleviated Pb induced stress in *Brassica rapa* subsp. *Parachinensis*: Modulations in glucosinolate content and some physiochemical attributes. *Frontiers in Plant Science*, 1799. (IF: 5.75).
20. Sardar, R., Ahmed, S., & **Yasin, N. A***. (2021). Seed priming with karrikinolide improves growth and physiochemical features of *Coriandrum sativum* under cadmium stress. *Environmental Advances*, 5, 100082.
21. Sardar, R., Ahmed, S., Shah, A. A. & **Yasin, N. A***. (2021). Selenium nanoparticles reduced cadmium uptake, regulated nutritional homeostasis and antioxidative system in *Coriandrum sativum* grown in cadmium toxic conditions. *Chemosphere*. (IF: 7.08)
22. Sardar, R., Ahmed, S. & **Yasin, N. A***. (2021). Role of exogenously applied putrescine in amelioration of cadmium stress in *Coriandrum sativum* by modulating antioxidant system. *International Journal of Phytoremediation*. (IF: 3.2).

2020

23. Ahmad, A., Akram, W., Shahzadi, I., Wang, R., Hu, D., Li, G., **Yasin, N. A**,..... & Wu, T. (2020). First Report of *Fusarium nelsonii* Causing Early-Stage Fruit Blight of Cucumber in Guangzhou, China. *Plant Disease*, 104(5), 1542. <https://doi.org/10.1094/PDIS-11-19-2511-PDN>. (IF: 4.43).
24. Akram, W., Ahmad, A., Juxian, G., **Yasin, N. A**, Akbar, M., Luo, W., ... & Li, G. (2020). Occurrence of head rot disease caused by *Fusarium verticillioides* on Chinese flowering cabbage (*Brassica rapa* L subsp. *parachinensis*) in China. *Crop Protection*, 105180. <https://doi.org/10.1016/j.cropro.2020.105180>. (IF: 2.57)
25. Ali Shah, A., Ahmed, S., & **Yasin, N. A**. * (2020). Cadmium stress consolation in melatonin supplemented *Cucumis sativus* through modulation of antioxidative defense system. *Iranian Journal of Plant Physiology*, 10(2), 3135-3154. (IF: 0.69).
26. Ijaz, M., Tabinda, B.A., Ahmad, S. R., Khan, W. U., & **Yasin, N. A**. 2020. Biogas synthesis from solid waste of leather industry solid waste in Pakistan. *Polish Journal of Environmental Studies*. ISSN No. / ISBN No. Volume 29. doi: 10.15244/pjoes/110444. (IF: 1.77).
27. Mushtaq, T., Shah, A. A., Akram, W., & **Yasin, N. A***. (2020). Synergistic ameliorative effect of iron oxide nanoparticles and *Bacillus subtilis* S4 against arsenic toxicity in *Cucurbita moschata*: polyamines, antioxidants, and physiochemical studies. *International journal of phytoremediation*, 1-12. <https://doi.org/10.1080/15226514.2020.1781052>. (IF: 3.2)
28. Nemat, H., Shah, A. A., Akram, W., Ramzan, M., & **Yasin, N. A***. (2020). Ameliorative effect of co-application of *Bradyrhizobium japonicum* EI09 and Se to mitigate chromium stress in *Capsicum annum* L. *International Journal of Phytoremediation*, 1-12. <https://doi.org/10.1080/15226514.2020.1780412>. (IF: 3.2).
29. Shah, A. A., Ahmed, S., Abbas, M., & **Yasin, N. A***. (2020). Seed priming with 3-epibrassinolide alleviates cadmium stress in *Cucumis sativus* through modulation of antioxidative system and gene expression. *Scientia Horticulturae*, 265, 109203. <https://doi.org/10.1016/j.scienta.2020.109203>. (IF: 3.46).
30. Shah, A. A., Ahmed, S., Ali, A., & **Yasin, N. A***. (2020). 2-Hydroxymelatonin mitigates cadmium stress in *Cucumis sativus* seedlings: Modulation of antioxidant enzymes and

polyamines. *Chemosphere*, 243, 125308. <https://doi.org/10.1016/j.chemosphere.2019.125308>. (IF: 7.08).

31. Shah, A. A., Bibi, F., Hussain, I., **Yasin, N. A***, Akram, W., Tahir, M. S., ... & Datta, R. (2020). Synergistic effect of *Bacillus thuringiensis* IAGS 199 and putrescine on alleviating cadmium-induced phytotoxicity in *capsicum annum*. *Plants*, 9(11), 1512. <http://dx.doi.org/10.3390/plants9111512>. (IF: 3.9).
32. Shah, A. A., Khan, W. U., **Yasin, N. A***, Akram, W., Ahmad, A., Abbas, M., ... & Safdar, M. N. (2020). Butanolide alleviated cadmium stress by Improving plant growth, photosynthetic parameters and antioxidant defense system of *Brassica oleracea*. *Chemosphere*, 127728. <https://doi.org/10.1016/j.chemosphere.2020.127728>. (IF: 7.08).
33. Shah, A., Ahmed, S., & **Yasin, N.A***. 2020. 2-hydroxymelatonin induced nutritional orchestration in *Cucumis sativus* under cadmium toxicity: modulation of non-enzymatic antioxidants and gene expression. *International journal of phytoremediation*, 1-11. <https://doi.org/10.1080/15226514.2019.1683715>. (IF: 3.2).
34. Ijaz, M., Ahmad, S. R., Akram, M., Khan, W. U., Yasin, N. A., & Nadeem, F. A. (2020). Quantitative and qualitative assessment of musculoskeletal disorders and socioeconomic issues of workers of brick industry in Pakistan. *International Journal of Industrial Ergonomics*, 76, 102933. (IF: 2.656).
35. Ijaz, M., Tabinda, A. B., Ahmad, S. R., Khan, W. U., & Yasin, N. A. (2020). Biogas synthesis from leather industry solid waste in Pakistan. *Polish Journal of Environmental Studies*, 29(5). (IF: 1.186).

2019

36. Ahmad, A., Akram, W.,... **Yasin, N. A.**, & Shafique, S. (2019). Benzenedicarboxylic acid upregulates O48814 and Q9FJQ8 for improved nutritional contents of tomato and low risk of fungal attack. *Journal of the Science of Food and Agriculture*, 99(14), 6139-6154. doi 10.1002/jsfa.9836. (IF: 2.42).
37. Akram, W., Ahmad, A., Luo, W., **Yasin, N. A.**, Wu, T., Guo, J., ... & Li, G. (2019). First Report of Stem and Root Rot of Chinese Kale Caused by *Fusarium incarnatum-equiseti* Species Complex in China. *Plant Disease*, 103(7), 1781. <https://doi.org/10.1094/PDIS-02-19-0261-PDN>. ISSN No. / ISBN No. 0191-2917.(IF: 2.9)
38. Akram, W., Ahmad, A., **Yasin, N.A.**, Khan, W.U., Juxian, G., Wenlong, L., Dasen, X., and Li, G. 2019. First Report of Stem Rot of Taro Caused by *Pythium ultimum* in China. *Plant Disease*, 104(3), <https://doi.org/10.1094/PDIS-09-19-1950-PDN>. (IF: 3.5).
39. Akram, W., Aslam, H., Ahmad, S. R., Anjum, T., **Yasin, N. A.**, Khan, W. U., ... & Li, G. (2019). *Bacillus megaterium* strain A12 ameliorates salinity stress in tomato plants through multiple mechanisms. *Journal of Plant Interactions*, 14(1), 506-518. <https://doi.org/10.1080/17429145.2019.1662497>. ISSN No. / ISBN No.1742-9145. <https://doi.org/10.1080/17429145.2019.1662497>. (IF: 1.8).
40. Akram, W., Saeed, T., Ahmad, A., **Yasin, N. A.**, Akbar, M., Khan, W. U., ... & Li, G. (2019). Liquiritin elicitation can increase the content of medicinally important glucosinolates and phenolic compounds in Chinese kale plants. *Journal of the Science of Food and Agriculture*, 100(4), 1616-1624. doi:10.1002/jsfa.10170. (IF: 2.61).
41. Ali, A., Shah, A.I., Hussain, R., Naveed, N.H., Jamil, M., **Yasin, N.A.**, & Simon, W.P. (2019). Phylogenetic relationship and screening of diverse germplasm of carrot (*Daucus*

- carota*) for drought resistance. *Feb-Fresenius Environmental Bulletin*. ISSN No. / ISBN No. 1018-4619. 28: 11A/2019. 8474-8479. (IF: 0.69).
42. Jamil M., Ali, A., Gul, A., Ghafoor A., Napar A. Amir, A., Ibrahim, M. H., Naveed, H. N., **Yasin, N. A.**, & Mujeeb-Kazi, A. (2019). Genome-wide association studies of seven agronomic traits under two sowing conditions in bread wheat. *BMC Plant Biology*, 19(1), 149. ISSN No. / ISBN No.1471-2229. <https://doi.org/10.1186/s12870-019-1754-6>. (IF: 3.6).
43. Shah, A., Ahmed, S., Ali, A. & **Yasin, N.A***. 2019. 24-epibrassinolide triggers cadmium stress mitigation in *Cucumis sativus* through intonation of antioxidant system. *South African Journal of Botany*, 127, 349-360. <https://doi.org/10.1016/j.sajb.2019.11.003>. (IF: 2.23).
44. **Yasin, N. A***, Khan, W. U., Ahmad, S. R., Ahmad, A., Akram, W., & Ijaz, M. 2019. Role of *Acinetobacter* sp. CS9 in Improving Growth and Phytoremediation Potential of *Catharanthus longifolius* under Cadmium Stress. *Polish Journal of Environmental Studies*. 28(1):435–443. ISSN No. / ISBN No. DOI: <https://doi.org/10.15244/pjoes/80806>. (IF: 1.12).
45. Shah, I. A., Hussain, R., Nijabat, A., Afreen, N., Shehzad, T.,**Yasin, N.A.**, Bano, A., Simon, W.P. 2019. Evaluation of carrot (*Daucus carota* L) germplasm under drought stress. *Fresenius Environmental Bulletin*. ISSN No. / ISBN No. 1018-4619. 28 (12): 9011-9016 (IF: 0.69).
46. **Yasin, N. A***, Khan, W. U., Ahmad, S. R., Ali, A., Ahmad, A., & Akram, W. 2019. Effect of *Enterobacter* sp. CS2 and EDTA on the Phytoremediation of Ni-contaminated Soil by *Impatiens balsamina*. *Polish Journal of Environmental Studies*. 28(1):425–433. ISSN No. / ISBN No. doi: <https://doi.org/10.15244/pjoes/76179>. (IF: 1.12).

2018

47. Ahmad, A., **Yasin, N. A.**, Ibrahim, A., Shahzadi, I., Gohar, M., Bashir, Z., ...& Akram, W. (2018). Modeling of cotton leaf curl viral infection in Pakistan and its correlation with meteorological factors up to 2015. *Climate and Development*, 10(6), 520-525. ISSN No. / ISBN No. <https://doi.org/10.1080/17565529.2017.1318738>. (IF: 2.4).
48. Jafari, M., Akram, W., Pang, Y., Ahmad, A., Ahmed, S., **Yasin, N. A.**, ...& Dong, S. (2018). Genetic diversity and biogeography of *T. officinale* inferred from multi locus sequence typing approach. *PLOS ONE*, 13(9), e0203275. ISSN No. / ISBN No. <https://doi.org/10.1371/journal.pone.0203275>. (IF: 2.76).
49. Khan, W. U., **Yasin, N. A.**, Ahmad, S. R., Ali, A., Ahmad, A., Akram, W., & Faisal, M. (2018). Role of *Burkholderia cepacia* CS8 in Cd-stress alleviation and phytoremediation by *Catharanthus roseus*. *International journal of phytoremediation*, 20(6), 581-592. ISSN No. / ISBN No. <https://doi.org/10.1080/15226514.2017.1405378>. (IF: 2.23).
50. **Yasin, N. A***, Akram, W., Khan, W. U., Ahmad, S. R., Ahmad, A., & Ali, A. (2018). Halotolerant plant-growth promoting rhizobacteria modulate gene expression and osmolyte production to improve salinity tolerance and growth in *Capsicum annum* L. *Environmental Science and Pollution Research*, 1-15. ISSN No. / ISBN No. <https://doi.org/10.1080/01448765.2015.1017737>. (IF: 2.8).
51. **Yasin, N. A***, Khan, W. U., Ahmad, S. R., Aamir, A., Shakil, A., & Aqeel, A. (2018). Effect of Bacillus fortis 162 on growth, oxidative stress tolerance and phytoremediation potential of *Catharanthus roseus* under chromium stress. *International Journal of Agriculture and Biology*, 20(7), 1513-1522. ISSN No. / ISBN No. DOI: 10.17957/IJAB/15.0655. (IF: 0.893).

52. **Yasin, N. A***, Khan, W. U., Ahmad, S. R., Ali, A., Ahmad, A., & Akram, W. (2018). Imperative roles of halotolerant plant growth-promoting rhizobacteria and kinetin in improving salt tolerance and growth of black gram (*Phaseolus mungo*). *Environmental Science and Pollution Research*, 25(5), 4491-4505. ISSN No. / ISBN No.1614-7499. <https://doi.org/10.1007/s11356-017-0761-0>. (IF: 2.8).
53. **Yasin, N. A***, Zaheer, M. M., Khan, W. U., Ahmad, S. R., Ahmad, A., Ali, A., & Akram, W. (2018). The beneficial role of potassium in Cd-induced stress alleviation and growth improvement in *Gladiolus grandiflora* L. *International journal of phytoremediation*, 20(3), 274-283. <https://doi.org/10.1080/15226514.2017.1374337>. ISSN No. / ISBN No. (IF: 2.23).
54. Zaheer, M. M., **Yasin, N. A.**, Ahmad, S. R., Khan, W. U., Ahmad, A., Ali, A., & Rehman, S. U. (2018). Amelioration of cadmium stress in gladiolus (*Gladiolus grandiflora* L.) by application of potassium and silicon. *Journal of Plant Nutrition*, 41(4), 461-476. <https://doi.org/10.1080/01904167.2017.1385808>. ISSN No. / ISBN No. (IF: 0.565).

2017

55. Ahmad, A., Akram, W., **Yasin, N.A.**, Khan, W.U., Noreen, S., Ashraf, Y., Ahmed, S., 2017. An insight into the associated microflora of *Parthenium hysterophorus* L. *J Innov Bio-Res*. 1(1): 1-7. ISSN No. / ISBN No.
56. Jamil, M., Ali, A., Ghafoor, A., Akbar, K. F., Napar, A. A., Naveed, N. H., **Yasin, N.A.**, ...& Mujeeb-Kazi, A. (2017). Digital image analysis of seed shape influenced by heat stress in diverse bread wheat germplasm. *Pak. J. Bot*, 49(4), 1279-1284. ISSN No. / ISBN No. <https://www.pakbs.org/pjbot/papers/1502346999.pdf>. (IF: 0.75).
57. Jamil, M., Ali, A., Ghafoor, A., Gul, A., Akbar, K. F., Bashir, H., ...& **Yasin, N. A.** (2017). Yield reduction analysis of bread wheat under heat stress at two different environments in Pakistan. *Feb-Fresenius Environmental Bulletin*, 4602. ISSN No. / ISBN No. ISSN. 1018-4619. 26 (7). (IF: 0.67).
58. Khan, W. U., Ahmad, S. R., **Yasin, N. A.**, Ali, A., & Ahmad, A. (2017). Effect of *Pseudomonas fluorescens* RB4 and *Bacillus subtilis* 189 on the phytoremediation potential of *Catharanthus roseus* (L.) in Cu and Pb-contaminated soils. *International journal of phytoremediation*, 19(6), 514-521. ISSN No. / ISBN No. <https://doi.org/10.1080/15226514.2016.1254154>. (IF: 1.88).
59. Khan, W. U., Ahmad, S. R., **Yasin, N. A***, Ali, A., Ahmad, A., & Akram, W. (2017). Application of *Bacillus megaterium* MCR-8 improved phytoextraction and stress alleviation of nickel in *Vinca rosea*. *International journal of phytoremediation*, 19(9), 813-824. ISSN No. / ISBN No. <https://doi.org/10.1080/15226514.2017.1290580>. (IF: 1.88).
60. Khan, W. U., **Yasin, N. A***, Ahmad, S. R., Ali, A., Ahmed, S., & Ahmad, A. (2017). Role of Ni-tolerant *Bacillus* spp. and *Althea rosea* L. in the phytoremediation of Ni-contaminated soils. *International journal of phytoremediation*, 19(5), 470-477. ISSN No. / ISBN No. <https://doi.org/10.1080/15226514.2016.1244167>. (IF: 1.88).
61. Shahzadi, I., Ahmad, A., **Yasin, N. A.**, Fareed, G., Ashraf, Y., Akram, W., ...& Tayyab, M. (2017). First report of *Alternaria brassicicola* causing leaf spots on garlic, an important food and medicinal plant. *Journal of Medicinal Botany*, 1, 08-12. ISSN No. / ISBN No. **2521-3903**.
62. **Yasin, N. A***, Khan, W. U., Akram, W., Ahmad, A., Ashraf, Y., & Ali, A. (2017). Application of Rhizobacteria for Induction of Systemic Resistance in *Brassica campestris* L.

against *Alternaria* Leaf Spot Disease Caused by *Alternaria brassicae*. *Journal of Microbiology and Biotechnology* 6(1): 51-58. ISSN No. / ISBN No. 2320 – 3528.

63. **Yasin, N. A***, Khan, W. U., Ashraf, Y., & Ali, A. (2017). Comparative physiological and morphological characterization of salt tolerance in *Raphanus sativus* L. *Journal of Plant Biochemistry and Physiology*, 5,177. ISSN No. / ISBN No. doi: 10.4172/2329-9029.1000177.

2016

64. Bashir, Z., Shafique, S., Ahmad, A., Shafique, S., **Yasin, N. A.**, Ashraf, Y., ...& Noreen, S. (2016). Tomato plant proteins actively responding to fungal applications and their role in cell physiology. *Frontiers in physiology*, 7, 257. ISSN No. / ISBN No. <https://doi.org/10.3389/fphys.2016.00257>. (IF: 4.395).
65. **Yasin, N. A***, & Ahmed, S. (2016). Induction of defence-related biochemicals by rhizosphere bacteria against black spot disease of rose. *Biological agriculture & horticulture*, 32(1), 34-46. ISSN No. / ISBN No. (IF: 0.787).
66. **Yasin, N. A***, Ahmed, S., Khan, W. U., & Ashraf, Y. (2016). Survey and Pathogenicity of Black Spot Disease of Rose in Pakistan. *J Horticulture*, 3(189), 2376-0354. DOI: 10.4172/2376-0354.1000189. ISSN No. / ISBN No.
67. Yousaf, A., Ashraf, Y., **Yasin, N. A.**, Ibrahim, A., Ahmad, A., Khan, W. U., ...& Noreen, Z. (2016). Analysis of Microbial Biochemical Inducting Nutritional Contents in Barley. *J Microb Biochem Technol*, 8, 395-403. DOI: 10.4172/1948-5948.1000315. ISSN No. / ISBN No. 1948-5948.

2014

68. Bashir, Z., **Yasin, N. A.**, Ahmad, A., Khan, J., Hanif, S., Yousaf, A., & Tariq, W. (2014). Matrix Effects in Cellulose. *J Phys Chem Biophys*, 4(160), 2161-0398. ISSN No. / ISBN No.

2000

69. Ahmed, M. J., Yousaf, A., Shah, S. Z., & **Yasin, N. A.** (2000). Effect of special pruning practices on vegetative and reproductive growth of apple. *Sarhad Journal of Agriculture*, 16(5), 511-514. ISSN No. / ISBN No. 1016-4383

* **Principal Author.**

RESEARCH PAPERS UNDER REVIEW

Synergistic Application of Silver Nanoparticles and Indole Acetic Acid Alleviate Cadmium Induced Stress and Improve Growth of *Daucus carota* L. *Chemosphere*.

PUBLISHED BOOK/ CHAPTER

1. Aqeel Ahmad, Waheed Akram, Nasim Ahmad Yasin. 2021. Induced defenses by non-pathogenic fungi against fungal plant diseases. Scholar's Press. Republic of Moldova, Chisinau-2068, str. A. Russo 15, of.61. ISBN 9786138950752.

BOOK CHAPTERS UNDER REVIEW

Book Title:

Brassinosteroids Signalling: Intervention with Phytohormones and their relationship in plant adaptation to abiotic stresses

Chapter 01:

Brassinosteroids and ethylene mediated cross talk in plant growth and development

Iqra Shahzadi, Aqeel Ahmad, Zarish Noreen, Waheed Akram, Nasim Ahmad Yasin, Hongbing Dung

Chapter 02:

Cross talk between brassinosteroids and cytokinins in relation to plant growth and developments

Nasim Ahmad Yasin, Anis Ali Shah, Aqeel Ahmad, Iqra Shahzadi

RESEARCH SUPERVISION

1. Waheed Ullah Khan (PhD: Completed): College of Earth and Environmental Sciences, University of the Punjab, Lahore, Pakistan.

Research Topic: Role of Metal Tolerant Rhizobacteria on Phytoremediation of Cd and Ni Contaminated Soils by *Catharanthus roseus* (L.). Don.

2. Anis Ali Shah (PhD: Completed): Department of Botany, University of the Punjab, Lahore, Pakistan.

Research Topic: Studies for exogenous application of antioxidants to alleviate heavy metal stress in cucumber (*Cucumis sativus* L.).

3. Saba Manzoor (PhD: In Process): Department of Botany, University of Sargodha, Pakistan.

Research Topic: Genome wide association mapping for salt tolerance in carrot (*Daucus carota* L.).

4. Samia Faiz (PhD: In Process): Department of Botany, University of Sargodha, Pakistan.

Research Topic: Physio-Morphic and biochemical characterization of carrot (*Daucus carota* L.) in response to silver nanoparticles against cadmium (Cd) stress.

5. Danish Ashfaq (PhD: In Process): Department of Botany, University of Sargodha, Pakistan.

Research Topic: Physio-Morphic and biochemical characterization of carrot (*Daucus carota* L.) in response to silver nanoparticles against lead (Pb) stress.

6. Rehana Sardar (PhD: In Process): Institute of Botany, University of the Punjab, Pakistan.

Research Topic: Effects of Seed Priming with Phytoprotectants on Cadmium Stress Alleviation in *Coriandrum sativum* L.

7. Hafsa Nemat (BS: Completed 2020): Department of Botany, University of Narowal, Pakistan.

Research Topic: Ameliorative effect of co-application of *Bradyrhizobium japonicum* EI09 and Se to mitigate chromium stress in *Capsicum annum* L.

8. Tarifa Mushtaq (BS: Completed 2020): Department of Botany, University of Narowal, Pakistan.

Research Topic: Synergistic ameliorative effect of iron oxide nanoparticles and *Bacillus subtilis* S4 against arsenic toxicity in *Cucurbita moschata*: polyamines, antioxidants, and physiochemical studies.

9. Muniba Tariq (BS: Completed 2020): Department of Botany, University of Narowal, Pakistan.

Research Topic: Enhanced performance of *Bacillus megaterium* OSR-3 in combination with putrescine ameliorated hydrocarbon stress in *Nicotiana tabacum*.

10. Kanwal Akram (BS: Completed 2020): Department of Botany, University of Narowal, Pakistan.

Research Topic: Ameliorative role of *Bacillus subtilis* FBL-10 and silicon against lead induced stress in *Solanum melongena*.

11. Fatima Bibi (BS: Completed 2020): Department of Botany, University of Narowal, Pakistan.

Research Topic: Synergistic effect of *Bacillus thuringiensis* IAGS 199 and putrescine on alleviating cadmium-induced phytotoxicity in *capsicum annum*.

12. Sonia Aslam (BS: Completed 2020): Department of Botany, University of Narowal, Pakistan.

Research Topic: Combined effect of *Bacillus fortis* IAGS 223 and zinc oxide nanoparticles to alleviate cadmium phytotoxicity in *Cucumis melo*.

13. Azna (BS: Completed 2020): Department of Botany, University of Narowal, Pakistan.

Research Topic: 4-Hydroxymelatonin alleviates nickel stress, improves physiochemical traits of *Solanum melongena*: Regulation of polyamine metabolism and antioxidative enzyme.

14. Samia Anwar (BS: Completed 2021): Department of Botany, University of Narowal, Pakistan.

Research Topic: Interactive potential of *Bacillus megaterium* A12 and biochar in chromium stress mitigation in *Spinacia oleraceae*: Methylglyoxal detoxification and activation of antioxidant enzymes

15. Muhammad Mudassir (BS: Completed 2021): Department of Botany, University of Narowal, Pakistan.

Research Topic: Interactive effect of iron oxide nanoparticles and selenium decreases arsenic uptake and toxicity in *Cucumis melo* through modulating antioxidant and glyoxalase system

16. Urwa Batool (BS: Completed 2021): Department of Botany, University of Narowal, Pakistan.

Research Topic: Impact of silver nanoparticles and biochar on the growth, yield and productivity of Fenugreek under cadmium stress.

17. Rida Saleem (BS: Completed 2021): Department of Botany, University of Narowal, Pakistan.

Research Topic: Effect of potassium sulphate solution on *Coriandrum sativum* under Pb stress: Application of biochar and PGPR

18. Romaisa Ijaz (BS: Completed 2021): Department of Botany, University of Narowal, Pakistan.

Research Topic: Remediation of heavy metal stress, toxicity of cadmium (Cd) from contaminated soil by using thiol-modified biochar and promoting growth of plants in crop of *Abelmoschus esculentus* by adding PGPR.

PUBLONS VERIFIED REVIEWS RECORD

S. NO	NAME OF RESEARCH JOURNAL	NO. OF REVIEWS
1	<u>International Journal of Phytoremediation</u>	40
2	<u>Crop & Pasture Science</u>	6
3	<u>Current Microbiology</u>	5
4	<u>Journal of Applied Microbiology</u>	5
5	<u>Plant Disease</u>	4
6	<u>Natural Product Research</u>	3
7	<u>Plant Physiology and Biochemistry</u>	3
8	<u>Acta Physiologiae Plantarum</u>	3
9	<u>Asian Journal of Agricultural and Horticultural Research</u>	2
10	<u>Bioresource Technology</u>	2
11	<u>Ecotoxicology and Environmental Safety</u>	2
12	<u>Food Science and Engineering</u>	2
13	<u>Journal of Agricultural Science</u>	2
14	<u>Journal of Horticulture and Plant Research</u>	2
15	<u>Phyton - International Journal of Experimental Botany</u>	2
16	<u>Sustainable Agriculture Research</u>	2
17	<u>African Journal of Food Science</u>	1
18	<u>Agricultural Sciences</u>	1
19	<u>Agronomy Journal</u>	2
20	<u>Annual Research & Review in Biology</u>	1
21	<u>Asian Journal of Research in Infectious Diseases</u>	1
22	<u>BioMed Research International</u>	1
23	<u>Biosciences Biotechnology Research Asia</u>	1
24	<u>Canadian Journal of Plant Science</u>	1
25	<u>Environmental and Experimental Botany</u>	2
26	<u>Global Journal of Ecology</u>	1
27	<u>Heliyon</u>	1
28	<u>Indian Journal of Pharmaceutical Education and Research</u>	1
29	<u>International Conference on Agricultural and Biological Sciences</u>	1
30	<u>International Conference on Water Resource and Environment</u>	1
31	<u>International Journal of Agricultural Science and Food Technology</u>	1
32	<u>International Journal of Agronomy</u>	1
33	<u>International Journal of Plant & Soil Science</u>	1
34	<u>Journal of Advances in Microbiology</u>	1
35	<u>Journal of Agriculture and Rural Development in the Tropics and Subtropics</u>	1
36	<u>Journal of Experimental Agriculture International</u>	1
37	<u>Journal of Plant Protection Research</u>	1
38	<u>Journal of Public Health and Epidemiology</u>	1

39	<u>The Scientific World Journal</u>	1
40	<u>Tree Physiology</u>	1
41	<u>Trends in Food Science & Technology</u>	1
42	<u>Letters in Applied Microbiology</u>	3
43	<u>Arabian Journal of Geosciences</u>	1
44	<u>Journal of Environment and Climate Change</u>	1
45	<u>Results in Physics</u>	2
46	<u>PLOS ONE</u>	1
47	<u>Environmental Research</u>	1
48	<u>Journal of Biomedical Materials Research: Part B - Applied Biomaterials</u>	1
49	<u>Biodiversitas, Journal of Biological Diversity</u>	1
50	<u>Agriculture</u>	1
		122

Top Reviewer: 2018 certificate from Elsevier:

(<http://media.journals.elsevier.com/content/files/bioresourcetechnologyreviewers2018-09162907.pdf>).

Top reviewer for “International Journal of Phytoremediation” on Publons (manuscripts reviewed in last 12 months: August 2020-August2021)

(<https://publons.com/journal/6886/international-journal-of-phytoremediation/>)

PUBLONS VERIFIED EDITOR RECORD

- ✚ Journal of Food Quality 4

TECHNICAL KNOW HOW

- ✚ Sustainable crop production.
- ✚ Development, improvement & maintenance of landscape projects.
- ✚ Planning and maintenance of annual and seasonal horticultural activities: planting, fertilizing, pruning, IPM, soil amending, mulching, winter preparation, etc.
- ✚ On-season and off-season crop production.
- ✚ Reclamation of soil pH and fertility.
- ✚ Periodic display and care of indoor plants.
- ✚ Green house management.
- ✚ Nursery management.
- ✚ Human resource management.
- ✚ Data analysis
- ✚ Graphic designing

ACHIEVEMENTS

- ✚ Isolated, identified and submitted rhizobacterial strain *Acinetobacter* sp. CS9 capable to improve plant growth and augment phytoremediation potential of *Catharanthus longifolius*.

- ✦ Isolated, identified and submitted rhizo bacterial strain *Burkholderia cepacia* CS8 capable to alleviate Cd stress and enhance phytoremediation capability of *Catharanthus roseus*.
- ✦ Isolated, identified and submitted rhizobacterial strain *Enterobacter*sp. CS2 which improved plant growth and phytoremediation capability of Ni contaminated Soil by *Impatiens balsamina*.
- ✦ Isolated, identified and submitted halo-tolerant rhizobacterial strains *Pseudomonas fluorescens* SA8 and *Acinetobacter baylyi* SA13 capable to mitigate salinity stress in *Phaseolus mungo*. etc.
- ✦ Conversion of green waste of the garden into compost and subsequent application.
- ✦ Isolated, identified and submitted rhizobacterial strain *Pseudomonas fluorescence* RB5 and *Bacillus subtilis* RB11 capable to manage growth and black spot disease of rose.
- ✦ Integrated pest management of mealy bug and dengue spreading mosquito.
- ✦ Developed strategies for useful application of potassium, kinetin, silicon and PGPR in plant growth, salt and metal stress alleviation.
- ✦ First report of *Alternaria brassicicola* causing leaf spots on garlic.
- ✦ Supervising research activities of Ph. D Scholars and others students.
- ✦ Developed and improved overall landscape of the university campus.

MEMBER OF SOCIETIES/ GROUPS

AGRI CIRCLE

BOTANICAL GARDEN LAHORE

CROP SCIENCE SOCIETY OF AMERICA

ENTOMOLOGICAL SOCIETY OF AMERICA

FLORAHORT

FLORICULTURE SOCIETY GILGIT BALTISTAN

FLORICULTURIST

FLORONA PLANTS

GARDENING CHIT CHAT

GARDENING GROUP FOR EVERYONE

ILLUSTRIOUS BOTANICAL ILLUSTRATIONS

INDUSTRIAL ENGINEERING AND OPERATION MANAGEMENT SOCIETY

WORLD ACADEMY OF SCIENCE, ENGINEERING AND TECHNOLOGY

INTERNATIONAL SOCIETY FOR AGROMETROLOGY

INTERNATIONAL SOCIETY FOR ENVIRONMENTAL INFORMATION SCIENCES

KASHMIR HORTICULTURE

MICROBIOLOGY SOCIETY

NDSA

PAKISTAN AGRARIAN COUNCIL
PAKISTAN AGRICULTURE DISCUSSION
PAKISTAN AGRICULTURE FORUM
POONCH AGRICULTURE RAWALAKOT
PRISTINE BOTANICAL GARDENS
MICROBIOLOGY SOCIETY UK
E-AGRICULTURE (FAO)
PAKISSAN.COM

RESEARCH COLLABORATION

- ✦ Prof. Dr. Aamir Ali. University of Sargodha, Pakistan.
- ✦ Prof. Dr. Ejaz Ahmad Khan. Gomal University, Dera Ismail Khan, Pakistan.
- ✦ Prof. Dr. Tingquan Wu. Guangdong Academy of Agricultural Sciences.
- ✦ Mr. Anis Ali Shah. University of Narowal, Pakistan.
- ✦ Caroline Ledant. Schola Campesina.
- ✦ Prof. Dr. Guihua Li. Guangdong Academy of Agricultural Sciences.
- ✦ Dr. Waheed Ullah Khan. The Islamia University of Bahawalpur, Pakistan.
- ✦ Prof. Dr. Arifa Tahir. Lahore College for Women University, Pakistan.

AWARDS/ HONORS/ CONFERENCES

- ✦ 7th invention to innovation summit 2018 held at University of the Punjab during March 07 to 08, 2018.
- ✦ Achieved “Certificate of Outstanding Contribution in Reviewing” from Elsevier.
- ✦ Bio-Physicochemical Basis for Technopreneurship. April 2-3, 2013. Department of Microbiology and Molecular Genetics & Institute of Business Administration, University of the Punjab, Lahore, Pakistan.
- ✦ First position holder during M.Sc. (Hon) in University College of Agriculture, Rawalakot.
- ✦ First position holder for services in Faran Quiz Society, Islamia College Civil Lines, Lahore.
- ✦ International Horticulture Conference (Revolutionizing Horticulture for Secured Future). University of the Punjab, Lahore, Punjab, Pakistan. 26-28 February, 2020.
- ✦ Member Red Crescent Youth Punjab.
- ✦ Participated in “Prospects of Agricultural Research (Current & Future)” held at University of the Punjab on August 23, 2017
- ✦ Participated in 3rd Invention to Innovation Summit 2016 held at University of the Punjab during March 19 to 20, 2014.
- ✦ Participated in 5th Invention to Innovation Summit 2014 held at University of the Punjab during March 02 to 03, 2016.
- ✦ Participated in 6th Invention to Innovation Summit 2017 held at University of the Punjab during March 07 to 08, 2017.
- ✦ Participated in 8th Invention to Innovation Summit 2014 held at University of the Punjab during March 02 to 03, 2019.
- ✦ Participated in essay and poetry competitions.

- ✦ Participated in Indigenous on-Campus Training Program for Management Team held at University of the Punjab during August 10 to 12, 2015.
- ✦ Participated in The First International Conference on Emerging Trends in Earth and Environmental Sciences held at College of Earth and Environmental Sciences, University of the Punjab during March 09 to 10, 2017.
- ✦ Participated in the Seminar on Food Sovereignty held at Institute of agricultural Sciences, University of the Punjab during March 29, 2018.
- ✦ Participated in Two Days Training of Presiding Officers and Senior Assistant Presiding Officers-GE 2018.
- ✦ Participated in Workshop on Entrepreneurship, Use of Business Intelligence for Development held at University of the Punjab November 08, 2016.
- ✦ Quaid-I-Azam Scout in Pakistan Boy Scout Association.
- ✦ Rendered services in National Cadet Corps.