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Researcher Links

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GOOGLE SCHOLAR		HTTPS://scholar.google.com/citations?hl=en&user=yVVoWu4AAAAJ

Education

B. Sc.		JUNE 2004 B. Sc. (Botany), Faculty of Science, Assiut University
M. Sc.		MAY 2010 M. Sc. (Plant Physiology), Faculty of Science, Assiut University
Ph. D.		MAY 2014 Ph. D. (Plant Ecology), Faculty of Science, Assiut University

Positions

Instructor		NOVEMBER 2004 Faculty of Science, Assiut University
Lecturer Assistant		JUNE 2010 Faculty of Science, Assiut University
Lecturer		JUNE 2014 Faculty of Science, Assiut University
Associate Professor		APRIL 2021 Faculty of Science, Assiut University

Memberships

○ Egyptian Botanical Society

Projects & Research Grants

○ A member of the research team of “Biological production of hydrogen fuel and environment” Project No. 972 from STDF in Assiut University, Egypt. 2008 -2010

Training

- 1- Research and Work Ethics in Assiut University, Faculty and Leadership Development Center (FLDC)
- 2- Publishing of Research in International Journals in Assiut University, Faculty and Leadership Development Center (FLDC)
- 3- Management of Time and Work Stresses Designing of Electronic Courses in Assiut University, Faculty and Leadership Development Center (FLDC)
- 4- Preparation and Publication of Scientific Research in Assiut University, Faculty and Leadership Development Center (FLDC)
- 5- Communication Skills in Assiut University, Faculty and Leadership Development Center (FLDC)
- 6- Workshop entitled “Gene cloning (Recombinant DNA technology)” The molecular biology research unit, Assiut University, Assiut. 19-21/4/2016
- 7- Workshop entitled “Recent advanced techniques for general analysis and green technology, Drug research center. 16/10/2019
- 8- Workshop entitled “Biodiversity of aquatic fungi” Assiut university Mycological center (AUMC). 12-16/11/2017
- 9- An introductory in “International plant genetics and genomics symposium IPGG”. Faculty of Agriculture, Assiut University. 14-15/10/2019.
- 10-11th International Conference for Development and Environment in the Arab World “Sustainable Development and Confronting Environmental & Climate Changes..... Challenges and Solutions“ 20-22 February 2022 - Assiut University, Assiut
- 11- Training course entitled “Plant Tissue Culture: Theoretical Basis and Practical Applications”. Central Lab., Faculty of Agriculture, Assiut University. 26-27 March 2022.
- 12- CABI Online-platform webinar “How to write professional review reports”. Organized in collaboration with the Egyptian knowledge bank. Wednesday, December 14, 2022
- 13- CABI Online-platform webinar “How to write professional response to reviewers”. Organized in collaboration with the Egyptian knowledge bank. Wednesday, December 21, 2022
- 14- Workshop entitled “Grants and Research Projects Workshop”. Technology Innovation Commercialization Office (TICO - Assiut University). Academy of Scientific Research and Technology (ASRT). Ministry of High Education. 5th October 2022.
- 15- Scientific webinar entitled: Building personality psychologically, culturally and socially” IFAD - Scholars and Academics Platform licensed with (200186783) certify. 13 May,
- 16- Scientific webinar entitled “Methods of publishing in indexed journals: Scopus database”. IFAD - Scholars and Academics Platform licensed with (200186783) certify. 16 May, 2023

- 17-Scientific webinar entitled:Towards effective educational leadership. IFAD - Scholars and Academics Platform licensed with (200186783) certify. 25 May, 2023
- 18-Scientific webinar entitled:Conflict Management in Workplace. IFAD - Scholars and Academics Platform licensed with (200186783) certify. 27 May, 2023
- 19-Scientific webinar entitled “Milestones in the path of scientific research”. IFAD - Scholars and Academics Platform licensed with (200186783) certify. 28 May, 2023
- 20-workshop entitled “Research Books Classifications and Methods”. IFAD - Scholars and Academics Platform licensed with (200186783) certify. 31 May, 2023
- 21-Scientific webinar entitled: The role of educational institutions in the education of the individual and society” IFAD - Scholars and Academics Platform licensed with (200186783) certify. 2 June, 2023
- 22-Scientific webinar entitled “Writing research and documenting references according to the method and standards of APA Seventh Edition - Practical workshop”. IFAD - Scholars and Academics Platform licensed with (200186783) certify. 16 July, 2023
- 23-Scientific dialogue entitled:"Artificial intelligence: How will the future of scientific research be"? IFAD - Scholars and Academics Platform licensed with (200186783) certify. 23 July, 2023.
- 24-1st International Forum and Exhibition for Sustainable Agriculture (IFESA). 22 November 2023 , Riyadh” The effect of gibberellic acid on wheat growth and nutrient uptake under combined stress of cerium, zinc and titanium dioxide nanoparticles”
- 25-10th International Conference of Plant science and Microbiology (10th ICBM). Sunday, 26 November 2023. Sohag New University, Sohag, Egypt
- 26- The Eighth International Conference of Egyptian Society for Environmental Science (ESES); Scientific Research Sustainable Development Conference, 24th-25th 2024. Suez Canal University, Ismailia, Egypt.
- 27-Training course entitled “Introduction to R For statistical computing”, Computer Unit, Faculty of Agriculture. 31st Jan-6th Feb 2024.
- 28-12th International Conference for Development and Environment in the Arab World “Sustainable Development and Confronting Environmental & Climate Changes..... Challenges and Solutions“ 25-27 February 2024 - Assiut University, Assiut
- 29-Scientific webinar entitled “An invitation to explore the flora of Yemen”. The Scientific Forum on Taxonomy and Genetics on 06/11/2023.
- 30-Scientific webinar entitled “Connecting people and planet: Exploring Digital Innovation in wildlife Conversation for World Wildlife Day 2024”. The Second Virtual International Environmental Symposium for Community Awareness on World Wildlife Day 2024. Princess Nourah Bint Abdulrahman University, Saudi Arabia on 3rd March 2024.
- 31-The 8th conference for young scientists in basic and applied sciences. 27-28 October 2024. Faculty of science - Assiut University
- 32-The 19th International Environmental Sciences Conference at Faculty of Science, Zagazig University On Basic Sciences and their Application for Environmental Protection and Sustainable Development. 18 th December 2024. Faculty of science - Zagazig University
- 33-

Research Articles Published from M. Sc. Thesis

1- Morsy, F. M., Hamid, A., & Abdel-Basset, R. (2010). ENRICHMENT OF HETEROCYST FREQUENCY IN A NEW ISOLATE OF NOSTOC SP SAG 2306 BY 2, 4 DICHLOROPHENOXYACETIC ACID AND ITS SUBSEQUENT IMPACT ON MODULATING PHOTOSYNTHESIS/RESPIRATION RATIO AND HYDROGENASES ACTIVITIES. Egyptian Journal of Phycology, 11(Second International Conference on Phycology, Limnology and Aquatic Sciences (February 14-15, 2010)), 27-48. <https://doi.org/10.21608/egyjs.2010.114884>

Research Articles Published from Ph. D. Thesis

- 1- El-Sharkawi, H.M.; Abdel-Hameed, A.H. and Gameh, M. (2013): Adjustment of internal water balance in two soybean cultivars to reduced soil water potential. Ass. Univ. Bull. Environ. Res. 16:71-91.
- 2- El-Sharkawi, H.M.; Abdel-Hameed, A.H. and Gameh, M. (2013): The role of some metabolites in osmotic adjustment to reduced matric and osmotic water potential in two soybean cultivars. Ass. Univ. Bull. Environ. Res. 16:93-111.

Research Articles Published After Ph. D. Thesis

- 1- Eissa, Mamdouh A., and Amany HA Abeed. "Growth and biochemical changes in quail bush (*Atriplex lentiformis* (Torr.) S. Wats) under Cd stress." *Environmental Science and Pollution Research* 26.1 (2019): 628-635.
- 2- Yousef, Naiema, Asmaa Mawad, and Amany Abeed. "Enhancement the cellulase activity induced by endophytic bacteria using calcium nanoparticles." *Current microbiology* 76.3 (2019): 346-354.
- 3- Dawood, M. F., Abeed, A. H., & Aldaby, E. E. (2019). Titanium dioxide nanoparticles model growth kinetic traits of some wheat cultivars under different water regimes. *Plant Physiology Reports*, 24(1), 129-140.
- 4- Abeed, A. H., and M. F. Dawood. "Comparative impact of different iso-osmotic solutions on osmotic adjustment in *Gossypium barbadense*." *Global Nest J* 22, no. 1 (2020): 75-84. <https://doi.org/10.30955/gnj.003106>
- 5- Dawood, Mona FA, and Amany HA Abeed. "Spermine-priming restrained water relations and biochemical deteriorations prompted by water deficit on two soybean cultivars." *Heliyon* 6.5 (2020): e04038.
- 6- Abeed, Amany HA, Mamdouh Alsayed Eissa, and Dalia A. Abdel-Wahab. "Effect of Exogenously Applied Jasmonic Acid and Kinetin on Drought Tolerance of Wheat Cultivars Based on Morpho-Physiological Evaluation." *Journal of Soil Science and Plant Nutrition* (2020): 1-14. <https://doi.org/10.1007/s42729-020-00348-1>
- 7- Ding, Z., Ali, E.F., Almaroai, Y.A. et al. Effect of Potassium Solubilizing Bacteria and Humic Acid on Faba Bean (*Vicia faba* L.) Plants Grown on Sandy Loam Soils. *J Soil Sci Plant Nutr* 21, 791-800 (2021). <https://doi.org/10.1007/s42729-020-00401-z>
- 8- Farghali, K., El-Sharkawi, H. M., Abeed, A. H. A. Abdel-Aal, A. (2022). 'Seasonal behavior of chlorophyll in some shrubs grown under mesic and xeric habitat conditions', *Assiut University Journal of Multidisciplinary Scientific Research*, 51(3), pp. 242-267. doi: 10.21608/aunj.2022.135980.1009
- 9- Abeed, A. H., Mahdy, R. E., Alshehri, D., Hammami, I., Eissa, M. A., Abdel Latef, A. A., & Mahmoud, G. A. (2022). Induction of resilience strategies against biochemical deteriorations prompted by severe cadmium stress in sunflower plant when *Trichoderma* and bacterial inoculation were used as biofertilizers. *Frontiers in Plant Science*. <https://doi.org/10.3389/fpls.2022.1004173>
- 10- Salama FM, AL-Huqail AA, Ali M, Abeed AHA. Cd Phytoextraction Potential in Halophyte *Salicornia fruticosa*: Salinity Impact. *Plants*. 2022; 11(19):2556. <https://doi.org/10.3390/plants11192556>

- 11- Abeed, A.H.A., Salama, F.M. (2022). Attenuating Effect of an Extract of Cd-Hyperaccumulator *Solanum nigrum* on the Growth and Physio-chemical Changes of *Datura innoxia* Under Cd Stress. *J Soil Sci Plant Nutr.* (22). <https://doi.org/10.1007/s42729-022-00966-x>
- 12- Mahdy RE, Althagafi ZMA, Al-Zahrani RM, Aloufi HHK, Alsalmi RA, Abeed AHA, Mahdy EE, Tammam SA. Comparison of Desired-Genetic-Gain Selection Indices in Late Generations as an Insight on Superior-Family Formation in Bread Wheat (*Triticum aestivum* L.). *Agronomy.* 2022; 12(8):1738. <https://doi.org/10.3390/agronomy12081738>
- 13- Abeed, A.H.A., Ali, M., Eissa, M.A. et al. Impact of sewage water irrigation on *Datura innoxia* grown in sandy loam soil. *BMC Plant Biol* 22, 559 (2022). <https://doi.org/10.1186/s12870-022-03935-9>
- 14- Abeed, A.H.A., Tammam, S.A. & El-Mahdy, M.T. Hydrogen peroxide pretreatment assisted phytoremediation of sodium dodecyl sulfate by *Juncus acutus* L. *BMC Plant Biol* 22, 591 (2022). <https://doi.org/10.1186/s12870-022-03984-0>
- 15- Fawzy Mahmoud Salama, Monier Mohamed Abd El-Ghani, Suzan Abd El-Monem, Sayed, Amany Hamid Abdel Hameed Abeed, Alaa Ahmed Kotp and Dalia, Ahmed Mohamed Abd El-Wahab (2021). In vitro anticancer and antioxidant potency of leaves extract of *Ochradenus baccatus* Delile. *BIOSCIENCE RESEARCH*, 18(1): 77-89. [https://www.isisn.org/BR18\(1\)2021/77-89-18\(1\)2021BR20-475.pdf](https://www.isisn.org/BR18(1)2021/77-89-18(1)2021BR20-475.pdf)
- 16- Abeed AHA, Ali M, Ali EF, Majrashi A, Eissa MA. Induction of *Catharanthus roseus* Secondary Metabolites When *Calotropis procera* Was Used as Bio-Stimulant. *Plants.* 2021; 10(8):1623. <https://doi.org/10.3390/plants10081623>
- 17- Li J, Chang Y, AL-Huqail AA, Ding Z, Al-Harbi MS, Ali EF, Abeed AHA, Rekaby SA, Eissa MA, Ghoneim AM, Tammam SA. Effect of Manure and Compost on the Phytostabilization Potential of Heavy Metals by the Halophytic Plant Wavy-Leaved Saltbush. *Plants.* 2021; 10(10):2176. <https://doi.org/10.3390/plants10102176>
- 18- Al-Huqail, A. A., Eissa, M. A., Ghoneim, A. M., Alsalmi, R. A., Al Thagafi, Z. M., Abeed, A. H., & Tammam, S. A. (2023). Phytoremediation of dinitrophenol from wastewater by *atriplex lentiformis*: effect of salicylic acid. *International Journal of Phytoremediation*, 1-9. <https://doi.org/10.1080/15226514.2023.2175779>
- 19- Alshegaihi, R. M., Mfarrej, M. F. B., Saleem, M. H., Parveen, A., Ahmad, K. S., Ali, B., ... & Soudy, F. A. (2023). Effective citric acid and EDTA treatments in cadmium stress tolerance in pepper (*Capsicum annuum* L.) seedlings by regulating specific gene expression. *South African Journal of Botany*, 159, 367-380. <https://doi.org/10.1016/j.sajb.2023.06.024>
- 20- Abeed, A. H., Saleem, M. H., Asghar, M. A., Mumtaz, S., Ameer, A., Ali, B., ... & Soudy, F. A. (2023). Ameliorative Effects of Exogenous Potassium Nitrate on Antioxidant Defense System and Mineral Nutrient Uptake in Radish (*Raphanus sativus* L.) under Salinity Stress. *ACS Omega.* <https://doi.org/10.1021/acsomega.3c01039>
- 21- Al-Huqail, A. A., Alshehri, D., Nawaz, R., Irshad, M. A., Iftikhar, A., Hussaini, K. M., ... & Abeed, A. H. (2023). The effect of gibberellic acid on wheat growth, and nutrient uptake under combined stress of cerium, zinc and titanium dioxide nanoparticles. *Chemosphere*, 139199. <https://doi.org/10.1016/j.chemosphere.2023.139199>

- 22- Ahmed, T., Masood, H. A., Noman, M., AL-Huqail, A. A., Alghanem, S. M., Khan, M. M., ... & Li, B. (2023). Biogenic silicon nanoparticles mitigate cadmium (Cd) toxicity in rapeseed (*Brassica napus* L.) by modulating the cellular oxidative stress metabolism and reducing Cd translocation. *Journal of Hazardous Materials*, 132070. <https://doi.org/10.1016/j.jhazmat.2023.132070>
- 23- Jalil, S., Alghanem, S. M., Al-Huqail, A. A., Nazir, M. M., Zulfiqar, F., Ahmed, T., ... & Jin, X. (2023). Zinc oxide nanoparticles mitigated the arsenic induced oxidative stress through modulation of physio-biochemical aspects and nutritional ions homeostasis in rice (*Oryza sativa* L.). *Chemosphere*. <https://doi.org/10.1016/j.chemosphere.2023.139566>
- 24- AL-Huqail, A. A., Rizwan, A., Zia-ur-Rehman, M., Al-Haithloul, H. A. S., Alghanem, S. M. S., Usman, M., ... & Abeed, A. A. (2023). Effect of exogenous application of biogenic silicon sources on growth, yield, and ionic homeostasis of maize (*Zea mays* L.) crops cultivated in alkaline soil. *Chemosphere*, 140019. <https://doi.org/10.1016/j.chemosphere.2023.140019>
- 25- Abeed, A. H., AL-Huqail, A. A., Albalawi, S., Alghamdi, S. A., Ali, B., Alghanem, S. M., ... & El-Mahdy, M. T. (2023). Calcium nanoparticles mitigate severe salt stress in *Solanum lycopersicon* by instigating the antioxidant defense system and renovating the protein profile. *South African Journal of Botany*, 161, 36-52. <https://doi.org/10.1016/j.sajb.2023.08.005>
- 26- Masood, N., Irshad, M. A., Nawaz, R., Abbas, T., Abdel-Maksoud, M. A., AlQahtani, W. H., ... & Abeed, A. H. (2023). Green synthesis, characterization and adsorption of chromium and cadmium from wastewater using cerium oxide nanoparticles; reaction kinetics study. *Journal of Molecular Structure*, 136563. <https://doi.org/10.1016/j.molstruc.2023.136563>
- 27- Al-Huqail, A. A., Alghanem, S. M. S., Abbas, Z. K., Al Aboud, N. M., Masood, N., Irshad, M. A., ... & Darwish, D. B. E. (2023). Evaluation of nanoceria on cadmium uptake in *Triticum aestivum* (L.) and its implications for dietary health risk. *Chemosphere*, 140115. <https://doi.org/10.1016/j.chemosphere.2023.140115>
- 28- Raza, S., Zia-ur-Rehman, M., Alghamdi, S. A., Alghanem, S. M. S., Usman, M., Ahmed, R., ... & Al-Haithloul, H. A. S. (2023). Effects of zinc-enriched amino acids on rice plants (*Oryza sativa* L.) for adaptation in saline-sodic soil conditions: Growth, nutrient uptake and biofortification of zinc. *South African Journal of Botany*, 162, 370-380. <https://doi.org/10.1016/j.sajb.2023.09.011>
- 29- Hussein, A. S., Abeed, A. H., Usman, A. R., & Abou-Zaid, E. A. (2023). Conventional vs. nano-micronutrients as foliar fertilization for enhancing the quality and nutritional status of pomegranate fruits. *Journal of the Saudi Society of Agricultural Sciences*. <https://doi.org/10.1016/j.jssas.2023.09.008>

- 30- Irshad, .A., Sattar, S., AL-Huqail, A.A. et al. Green synthesis and characterization of silver and copper nanoparticles and their use as an effective adsorbent for chromium removal and recovery from wastewater. *Environ Sci Pollut Res* (2023). <https://doi.org/10.1007/s11356-023-30141-3>
- 31- Ali, A., Alghanem, S. M. S., Al-Haithloul, H. A. S., Muzammil, S., Adrees, M., Irfan, E., ... & Abeed, A. H. (2023). Co-application of copper nanoparticles and metal tolerant *Bacillus* sp. for improving growth of spinach plants in chromium contaminated soil. *Chemosphere*, 345, 140495. <https://doi.org/10.1016/j.chemosphere.2023.140495>
- 32- Alwutayd, K. M., Alghanem, S. M. S., Alwutayd, R., Alghamdi, S. A., Alabdallah, N. M., Al-Qthanin, R. N., ... & Abeed, A. H. (2023). Mitigating chromium toxicity in rice (*Oryza sativa* L.) via ABA and 6-BAP: Unveiling synergistic benefits on morphophysiological traits and ASA-GSH cycle. *Science of The Total Environment*, 168208. <https://doi.org/10.1016/j.scitotenv.2023.168208>
- 33- Haifa Abdulaziz Sakit Alhaithloul, Baber Ali, Suliman Mohammed Suliman Alghanem, Faisal Zulfqar, Sami Asir Al-Robai, Sezai Ercisli, Jean Wan Hong Yong, Anam Moosa, Effa Irfan, Qasim Ali, Muhammad Atif Irshad, Amany H.A. Abeed (2023). Effect of green-synthesized copper oxide nanoparticles on growth, physiology, nutrient uptake, and cadmium accumulation in *Triticum aestivum* (L.). *Ecotoxicology and Environmental Safety*, 268, 115701. <https://doi.org/10.1016/j.ecoenv.2023.115701>
- 34- Mahmoud, G. A. E., Abeed, A. H., Mostafa, H. H., & Abdel Monsef, O. (2023). Responses of Pea (*Pisum sativum* L.) to Single and Consortium Bio-Fertilizers in Clay and Newly Reclaimed Soils. *Plants*, 12(23), 3931. <https://doi.org/10.3390/plants12233931>
- 35- Alhaithloul, H. A. S., Ali, B., Alghanem, S. M. S., Zulfqar, F., Al-Robai, S. A., Ercisli, S., ... & Abeed, A. H. (2023). Effect of green-synthesized copper oxide nanoparticles on growth, physiology, nutrient uptake, and cadmium accumulation in *Triticum aestivum* (L.). *Ecotoxicology and Environmental Safety*, 268, 115701. <https://doi.org/10.1016/j.ecoenv.2023.115701>
- 36- Abbas, F., Faried, H.N., Akhtar, G. et al. Cucumber grafting on indigenous cucurbit landraces confers salt tolerance and improves fruit yield by enhancing morpho-physio-biochemical and ionic attributes. *Sci Rep* 13, 21697 (2023). <https://doi.org/10.1038/s41598-023-48947-z>

- 37- AL-Huqail, A.A., Alghanem, S.M.S., Alhaithloul, H.A.S. et al. Combined exposure of PVC-microplastic and mercury chloride (HgCl₂) in sorghum (*Pennisetum glaucum* L.) when its seeds are primed titanium dioxide nanoparticles (TiO₂-NPs). *Environ Sci Pollut Res* (2024). <https://doi.org/10.1007/s11356-023-31733-9>
- 38- Shaheen, T., Rehman, A., Abeed, A. H., Waqas, M., Aslam, A., Azeem, F., ... & Nahid, N. Identification and expression analysis of SBP-Box-like (SPL) gene family disclose their contribution to abiotic stress and flower budding in Pigeon pea (*Cajanus cajan* L. Millsp). *Functional Plant Biology* 51, FP23237 <https://doi.org/10.1071/FP23237>
- 39- Sana et al. (2024). Assessment of Antioxidant Activities of Flaxseed (*Linum Usitatisimum* L.) and Fennel seeds (*Foeniculum Vulgare* Mill.) Extracts. *Polish Journal of Environmental Studies*. 10.15244/pjoes/175789. <http://doi.org/10.15244/pjoes/175789>
- 40- Amin, F., AL-Huqail, A.A., Ullah, S. et al. Mitigation effect of alpha-tocopherol and thermo-priming in *Brassica napus* L. under induced mercuric chloride stress. *BMC Plant Biol* 24, 108 (2024). <https://doi.org/10.1186/s12870-024-04767-5>
- 41- Hussain et al. Effect of hesperidin on growth, photosynthesis, antioxidant systems and uptake of cadmium, copper, chromium and zinc by *Celosia argentea* plants.
- 42- *Plant Physiology and Biochemistry*. 108433 (2024). <https://doi.org/10.1016/j.plaphy.2024.108433>
- 43- Jamil, M., Malook, I., Rehman, S.U. et al. Inoculation of heavy metal resistant bacteria alleviated heavy metal-induced oxidative stress biomarkers in spinach (*Spinacia oleracea* L.). *BMC Plant Biol* 24, 221 (2024). <https://doi.org/10.1186/s12870-024-04757-7>
- 44- Hassan, M. O., Alsudays, I. M., Mohamed, H. Y., Abdelhameed, A. A., Alghanam, S. M. S., Al-Robai, S. A., ... & Abeed, A. H. (2024). Microenvironment created by *Plantago lagopus* L. may affect cover and diversity of coexisting species in urban vegetation. *Heliyon*. <https://doi.org/10.1016/j.heliyon.2024.e28614>
- 45- Alwutayd, K.M., Alghanem, S.M.S., Alshehri, D. et al. Advancing Arsenic Toxicity Mitigation in Rice (*Oryza sativa* L.) with Rice Straw Biochar and Silicon: A Study on Morpho-Physio-Biochemical Responses. *J Soil Sci Plant Nutr* (2024). <https://doi.org/10.1007/s42729-024-01825-7>
- 46- Alshegaihi, R.M., Mfarrej, M.F.B., Alatawi, A. et al. Seed Priming with Iron Oxide Nanoparticles Ameliorates As Toxicity by Decreasing Organic Acid Exudation Pattern and Modulating Specific Gene Expression in Rapeseed (*Brassica napus* L.). *J Plant Growth Regul* (2024). <https://doi.org/10.1007/s00344-024-11345-4>

- 47- Jalil, S., Zulfiqar, F., Moosa, A., Chen, J., Jabeen, R., Ali, H. M., ... & Essawy, H. S. (2024). Amelioration of chromium toxicity in wheat plants through exogenous application of nano silicon. *Plant Physiology and Biochemistry*, 108659. <https://doi.org/10.1016/j.plaphy.2024.108659>
- 48- Abdelhameed, A. A., Eissa, M. A., El-kholy, R. I., Darwish, D. B. E., Abeed, A. H., Soudy, F. A., ... & Zayed, M. (2024). Molecular Cloning and Expression Analysis of Geranylinalool Synthase Gene (SgGES) from *Salvia guaranitica* Plants. *Horticulturae*, 10(7), 668. <https://doi.org/10.3390/horticulturae10070668>
- 49- Abdelaal, M., AL-Huqail, A. A., Alghanem, S. M. S., Alhaithloul, H. A. S., Al-Robai, S. A., Abeed, A. H., ... & Yahia, A. A. (2024). Population status, habitat preferences and predictive current and future distributions of three endangered *Silene* species under changing climate. *Frontiers in Plant Science*, 15, 1336911. <https://doi.org/10.3389/fpls.2024.1336911>
- 50- El-Mahdy, M. T., Ali, M., Pisam, W. M., & Abeed, A. H. (2024). Physiological and Molecular Analysis of Pitaya (*Hylocereus polyrhizus*) Reveal Up-regulation of Secondary Metabolites, Nitric oxide, Antioxidant Defense System, and Expression of Responsive Genes under Low-temperature Stress by the pre-treatment of Hydrogen Peroxide. *Plant Physiology and Biochemistry*, 108840. <https://doi.org/10.1016/j.plaphy.2024.108840>
- 51- AL-Huqail, A.A., Alghanem, S., Alghamdi, S.A. et al. Coactive Application of *Bacillus Mycoides* PM35 and Calcium Oxide Nanoparticles Stimulate Gene Expression Responses in Maize (*Zea Mays* L.) under Chromium Stress. *J Soil Sci Plant Nutr* (2024). <https://doi.org/10.1007/s42729-024-01826-6>
- 52- Abubakar et al., (2024). Microwave seed priming and ascorbic acid assisted phytoextraction of heavy metals from surgical industry effluents through spinach. *Ecotoxicology and Environmental Safety*. 282. <https://doi.org/10.1016/j.ecoenv.2024.116731>
- 53- El-Mahdy, M. T., Ali, M., Pisam, W. M., & Abeed, A. H. (2024). Physiological and Molecular Analysis of Pitaya (*Hylocereus polyrhizus*) Reveal Up-regulation of Secondary Metabolites, Nitric oxide, Antioxidant Defense System, and Expression of Responsive Genes under Low-temperature Stress by the pre-treatment of Hydrogen Peroxide. *Plant Physiology and Biochemistry*, 108840. <https://doi.org/10.1016/j.plaphy.2024.108840>
- 54- Alghanem, S. M. S., Alsudays, I. M., Farid, M., Sarfraz, W., Ishaq, H. K., Farid, S., ... & Abeed, A. H. (2024). Evaluation of heavy metal accumulation and tolerance in oxalic acid-treated *Phragmites australis* wetlands for textile effluent remediation. *International Journal of Phytoremediation*, 1-16. <http://dx.doi.org/10.1080/15226514.2024.2372849>

- 55- Zulfiqar, F., Moosa, A., Alshehri, D. et al. Trehalose and melatonin interactions alleviate cadmium-incited oxidative stress via activating defense related genes and improve ornamental pepper growth. *Plant Growth Regul* (2024). <https://doi.org/10.1007/s10725-024-01238-7>
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The distribution of published papers in the different international journals

NO.	Journal Title	No. of Papers	Impact Factor	Quartile	Publisher
1	GLOBAL NEST JOURNAL	1	0.19	Q4	GLOBAL NETWORK ENVIRONMENTAL SCIENCE & TECHNOLOGY
2	BIOSCIENCE RESEARCH	1		Q4	INNOVATIVE SCIENTIFIC INFORMATION & SERVICES NETWORK
3	Current Microbiology	1	0.41	Q4	Springer
4	HELIYON	3	0.72	Q2	ELSEVIER
5	Frontiers in Plant Science	2	6.63	Q1	FRONTIERS MEDIA SA
6	BMC Plant Biology	5	5.26	Q1	Springer
7	Environmental Science and Pollution Research	2	5.19	Q2	Springer
8	Plants	4	4.5	Q1	MDPI
9	Journal of Soil Science and Plant Nutrition	5	3.87	Q1	Springer
10	Agronomy	1	3.95	Q1	MDPI
11	Chemosphere	5	8.8	Q1	ELSEVIER
12	South African Journal of Botany	3	3.1	Q2	ELSEVIER
13	Journal of Hazardous Materials	1	13.4	Q1	ELSEVIER
14	ACS omega	1	4.1	Q2	ACS
15	International Journal of Phytoremediation	2	4.00	Q2	Taylor & Francis
16	Journal of the Saudi Society of Agricultural Sciences	1	Q1 in scopus		ELSEVIER
17	Journal of Molecular Structure	1	3.8	Q2	ELSEVIER
18	Science of The Total Environment	1	9.8	Q1	ELSEVIER
19	Ecotoxicology and Environmental Safety	2	6.8	Q1	ELSEVIER
20	Scientific Report	2	4.6	Q2	Springer
21	Functional Plant Biology	1	3.0	Q2	CSIRO PUBLISHING
22	Plant Physiology and Biochemistry	4	6.5	Q1	ELSEVIER
23	Polish Journal of Environmental Studies	1	1.8	Q4	HARD
24	Journal of Plant Growth Regulation	4	4.8	Q1	Springer
25	Scientia Horticulturae	3	4.3	Q1	ELSEVIER
26	Horticulturae	1	3.1	Q1	MDPI
27	Plant Growth Regulation	1	3.5	Q1	Springer

Review records for international journals

- 49 REVIEWS OF 41 MANUSCRIPTS For manuscripts published from date range December 2019 - December 2024
- Verified peer reviews are listed in the following link:
<https://www.webofscience.com/wos/op/peer-reviews/summary>

Journal	Reviewing times
Agriculture	2
Agronomy	6
Asian Food Science Journal	1
Asian Journal of Research in Agriculture and Forestry.	1
Biology	2
BMC plant biology	2
Egyptian Journal of Botany	6
Frontiers in Plant Science	4
Heliyon	7
International Journal of Enviornment and Climate Change	1
International journal of environmental research and public health	2
International journal of molecular sciences.	2
International journal of plant and soil science	1
Journal of soil science and plant nutrition.	7
Photosynthetica.	3
Plant Cell Biotechnology and Molecular Biology.	1
Scientific reports	2
Soil systems	3
Sustainability	3
Ecotoxicology and Environmental Safety	1