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| Mohamed H. H. Abbas, Professor (Full)   |  |  | | --- | --- | | :  *June 2019 – present* | Benha University, Faculty of Agriculture  Benha, Egypt  Soil chemistry, soil and water pollution, soil reclamation | | *Author ID* | 7101812988  http://orcid.org/0000-0002-1905-1241 | |  |

Skills & Activities

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| *Skills* | Soil, Heavy Metals, Irrigation, Environmental Health, Soil Analysis, Soil Chemistry, Environmental Impact Assessment, Water Quality, Phytoremediation, Soil Remediation, Agriculture, Sustainable Agriculture, Salinity, Environmental Pollution, Environmental Monitoring, Heavy Metal Pollution, Wastewater Treatment, Heavy Metals Analysis, Water and Wastewater Treatment, Heavy Metal Accumulation, Water Chemistry, Land Reclamation |
| *Languages* | Arabic, English |
| *Scientific Memberships* | **Egyptian Journal of Soil Science** (Editorial board)  https://ejss.journals.ekb.eg/  **Environment, Biodiversity & Soil Security** (Editorial board)  <https://jenvbs.journals.ekb.eg/> |

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| Zagazig University,Benha Branch | 26 February 2000 | **Demonstrator** | *Administrative Position* |
| BenhaUniversity, Faculty of Agriculture | 24 May 2003 | **Assistant Lecturer** |
| University of Aberdeen, School of Biological Sciences | 15 November 2005-14 November 2007 | **Visiting student** |
| BenhaUniversity, Faculty of Agriculture | 27 January 2008 | **Lecturer** |
| Benha University, Faculty of Agriculture | 30 April 2014 | **Associate professor** |  |
| Benha University, Faculty of Agriculture | 26 June 2019 | **Professor** |  |



Journal Publications

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| Abbas, M.H.H., and [Meharg](https://www.researchgate.net/researcher/78453669_Andrew_A_Meharg/),A.A. (2008) [Arsenate, arsenite and dimethyl arsinic acid (DMA) uptake and tolerance in maize (*Zea mays* L.).](https://www.researchgate.net/publication/225794715_Arsenate_arsenite_and_dimethyl_arsinic_acid_(DMA)_uptake_and_tolerance_in_maize_(Zea_mays_L.)?ev=prf_pub) *Plant Soil* 304(1):277-289. https://doi.org/10.1007/s11104-008-9549-9 | | 1 |
| Abbas, M.H.H. and Ismail, A.O.A. (2010) Mechanisms of Cobalt (Co) retention by kaolinite, montmorillonite, calcium carbonate and humic acid. *Research Journal of Agriculture and Biological Sciences*, 6(6), 1103-1109 | | 2 |
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| Abbas, M.H.H., Ismail, AO.A., El-Gamal, M.A.H., Salem, H.M. (2011) Integrated effect of mineral nitrogen, bio and organic fertilization on soybean productivity. *Egypt. J. Biotechnol*. 39, 43-63 | | 4 |
| [Fahmi](https://www.researchgate.net/researcher/2006830424_FM_Fahmi/), F.M. F.M., Abbas, M.H.H. (2012) [Challenges facing food production in upper Egypt: P amendments between governmental regulations and low efficiency fertilizers](https://www.researchgate.net/publication/235789169_Challenges_facing_food_production_in_upper_Egypt_P_amendments_between_governmental_regulations_and_low_efficiency_fertilizers?ev=prf_pub) *J. Soil Sci. and Agric. Eng., Mansoura Univ*. 3(12):1203-1213. http://dx.doi.org/[10.21608/jssae.2012.54703](https://dx.doi.org/10.21608/jssae.2012.54703) | | 5 |
| Abbas, M.H.H. and Abdelhafez, A.A. (2013) Role of EDTA in arsenic mobilization and its uptake by maize grown on an As-polluted soil. *Chemosphere* 90, 588–594. <http://dx.doi.org/10.1016/j.chemosphere.2012.08.042> | | 6 |
| [Mustafa](https://www.researchgate.net/researcher/2029862440_Emad_F_Mustafa/), E. F., [Farid](https://www.researchgate.net/researcher/2029849519_Ihab_M_Farid/), I. M., Abbas, M.HH. (2013) [Yield economical return and ameliorating effect of sugar beet grown in sodic soil irrigated with low quality water.](https://www.researchgate.net/publication/256408343_Yield_economical_return_and_ameliorating_effect_of_sugar_beet_grown_in_sodic_soil_irrigated_with_low_quality_water?ev=prf_pub)  *The labor of Agrarian academy of Azerbaijan*. 2:115-120 | 7 | |
| Abbas (2013) Kinetics of zinc ageing in Typic Torriorthent and Typic Haplocalcid soils. Egypt. J. Soil Sci, 53 (3), 413- 428. https://doi. org/10.21608/EJSS.2013.176 | 8 | |
| Abdelhafez, A.A., Abbas, M.H.H., Li, J. (2014) Biochar: A solution for soil pollution. International Conference on Environmental Specimen Banks ICESB, Shanghai, China. 12-15 | 9 | |
| Farid, I.M., Abbas, M.H.H., Beheiry, G.Gh.S. and Elcossy, S.A.E. (2014). Implications of organic amendments and tillage of a sandy soil on its physical properties and C-sequestration as well as its productivity of wheat and maize grown thereon. *Egypt. J. Soil Sci*, 54 (2), 177-194. <https://doi.org/10.21608/ejss.2014.132> | 10 | |
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| Abbas, M.H.H., Bassouny, M. (2018) Implications of long term irrigation with wastewater on the contents and retention kinetics of potentially toxic elements in Typic Torripsamment soils. *Egypt J Soil Sci*, 58 (3), 337-357.<https://doi.org/10.21608/ejss.2018.4232.1183> | 26 | |
| [Nabwi](https://www.researchgate.net/scientific-contributions/2146559190_M_F_Nabwi?_sg=TWg-wS2XBSsyhnQKHgUBEO1VArLjsP0EVkK0qJjXh4IIiVp7Bft1xXeeN8KxMlV5Aj5qerE.l-KvhsEPyiYxIc1uqJb86GF16igezDQD51CaLGwYEseeRa1Sa_2HEPkgrIpWC-a_etk-OZIG5MqE3UOgyyaAuQ), M.F., Abbas, H.H., Salem, H.M., Abbas, M.H.H. (2018) Feasibility of reclamation of low quality waters from different sources in Egypt. *Egypt J Appl Sci* 3(5), 105-128 | 27 | |
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| Farid, I., Abbas, M., Bassouny, M., Gameel, A., Abbas, H. (2019). Indirect impacts of irrigation with low quality water on the environmental safety. Egyptian Journal of Soil Science, 60, 1-15. <https://doi.org/10.21608/ejss.2019.15434.1294> | 36 | |
| Eid, K.E., Abbas, M.H.H., Mekawi, E.M., ElNagar, M.M., Abdelhafez, A.A., Amin, B.A., Mohamed, I., Ali, M.M. (2019) Arbuscular mycorrhiza and environmentally biochemicals enhance the nutritional status of *Helianthus tuberosus* and induce its resistance against *Sclerotium rolfsii*, Ecotoxicology and Environmental Safety, 186,109783, <https://doi.org/10.1016/j.ecoenv.2019.109783>. | 37 | |
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| Bassouny, M., Abbas, M., Mohamed, I. (2020). Environmental risks associated with the leakage of untreated wastewater in industrial Areas. Egyptian Journal of Soil Science, <https://doi.org/10.21608/ejss.2019.18787.1319> | 39 | |
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