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**https://www.webofscience.com/wos/author/rid/Q-1519-2017**

**https://scholar.google.com/citations?user=YysYHckAAAAJ&hl=en**

[**https://www.researchgate.net/profile/Dr\_Manzer\_H\_Siddiqui**](https://www.researchgate.net/profile/Dr_Manzer_H_Siddiqui)

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Current Position

► Associate Professor, Department of Botany & Microbiology, College of Science, King Saud University, Riyadh, Kingdom of Saudi Arabia

Education

**2005 PhD (Botany) Aligarh Muslim University, Aligarh, U.P., India**

**2000 MSc (Botany) Aligarh Muslim University, Aligarh, U.P., India**

**1997 BSc (Hons) Botany** **Aligarh Muslim University, Aligarh, U.P., India**

Awards and fellowships

► **Included my name in the World’s Top 2% Scientists’ list in 2020, 2021 and 2022**

► **The Best Research Paper Award,** The 26th Meeting of the Saudi Biological Society, Climatic Change and Biodiversity, Taif, Saudi Arabia, 10-12 May, 2011

► **Post Doctoral Fellowship, Awarded by Universiti Sains Malaysia**

► **Young Scientist,** Awarded by Science and Technology, Government of Uttar Pradesh, India

► **Dr. D. S. Kothari Post Doctoral Fellowship,** Awarded by University Grants Commission, New Delhi, India

► **The National Scholarship Programme of the Slovak Republic** for the Support of Mobility of Students, PhD. Students, University Teachers and Researchers

► **Young Scientist, ﻿**Awarded by Science & Engineering Research Council, Department of Science and Technology, Govt. of India, New Delhi.

Research grant support

► **National Plan for Sciences and Technology (NPST)**

**Project Title:** Analysis of the involvement of heat shock proteins in determining pollen viability in faba beans subjected to drought and heat stress

► **University Grants Commission, Government of India**, New Delhi, India

**Project Title:** Role of nitric oxide-mediated coordination of nitrate reductase (NRA) and O-acetylserine (thiol) lyase in the tolerance of sulphur-use-efficient mustard genotypes to salt stress

► **Travel grant**:Department of Science & Technology, Ministry of Science and Technology, Govt. of India

► **Travel grant**: Council of Scientific & Industrial Research, Human Resource Development Group, India

► Received as a principal investigator from SERC, Department of Science & Technology, Ministry of Science & Technology, Government of of India, New Delhi

**Project Title:** Study of the importance of nitrate reductase and ATP-sulphurylase in tolerance of rapeseed-mustard genotypes to salt stress

Book

1. M Nasir Khan, **Manzer H. Siddiqui,** Saud Alamri, Corpas F.J. (2021). Hydrogen Sulfide and Plant Acclimation to Abiotic Stresses. Plant in Challenging Environments, vol 1. Springer, Cham. <https://doi.org/10.1007/978-3-030-73678-1_11>
2. **Manzer H. Siddiqui,** Firoz Mohammad and Mohamed H. Al-Whaibi (2012). Nutrient Management in Erucic Acid Free Brassica Genotypes Production Mineral Nutrient Management Strategies for Improved Productivity. LAP Lambert Academic Publishing AG & Co KG, Germany, Feb 14, 2012 - 132 pages
3. **Manzer H. Siddiqui,** Firoz Mohammad and Mohamed H. Al-Whaibi (2015). Nanotechnology and Plant Sciences: Nanoparticles and their impact on plants. Springer International Publishing Switzerland.

Book Chapter

1. M Nasir Khan, **Manzer H. Siddiqui,** AlSolami M.A., Basahi R.A., Siddiqui Z.H., Saud Alamri (2021) Cysteine and Hydrogen Sulfide: A Complementary Association for Plant Acclimation to Abiotic Stress. In: Khan M.N., Siddiqui M.H., Alamri S., Corpas F.J. (eds) Hydrogen Sulfide and Plant Acclimation to Abiotic Stresses. Plant in Challenging Environments, vol 1. Springer, Cham. <https://doi.org/10.1007/978-3-030-73678-1_11>
2. Ali Raza, Charagh S., Najafi-Kakavand S., **Manzer H. Siddiqui** (2021) The Crucial Role of Jasmonates in Enhancing Heavy Metals Tolerance in Plants. In: Aftab T., Yusuf M. (eds) Jasmonates and Salicylates Signaling in Plants. Signaling and Communication in Plants. Springer, Cham. <https://doi.org/10.1007/978-3-030-75805-9_8>
3. Ali Raza, Rida Javed, Zainab Zahid, Rahat Sharif, Muhammad Bilal Hafeez, Muhammad Zubair Ghouri, Muhammad Umar Nawaz, **Manzer H. Siddiqui** (2021) Strigolactones for Sustainable Plant Growth and Production Under Adverse Environmental Conditions. In: Husen A. (eds) Plant Performance Under Environmental Stress. Springer, Cham. <https://doi.org/10.1007/978-3-030-78521-5_6>
4. Dhruv Lavania, Amit Kumar Singh, **Manzer H. Siddiqui**, Mohamed H. Al-Whaibi, Anil Grover (2015). Abiotic stress tolerant transgenic plants and nanotechnology, In: Nanotechnology and Plant Sciences: Nanoparticles and their impact on plants. MH Siddiqui, MH. Al-Whaibi, Mohammad F. (Editors), Springer International Publishing Switzerland**.**
5. **Manzer H. Siddiqui**, Mohamed H. Al-Whaibi, Firoz Mohammad, Al-Khaishany MY (2015). Role of nanoparticles in plants In: Nanotechnology and Plant Sciences: Nanoparticles and their impact on plants. MH Siddiqui, MH. Al-Whaibi, Mohammad F. (Editors), Springer International Publishing Switzerland

Publications

1. **Manzer H Siddiqui,** M Nasir Khan, Vijay Pratap Singh (2022). Hot and dry: how plants can thrive in future climates. **Plant Cell Reports,** 41, 497–499.
2. Anis Ali Shah, Luqman Riaz, Manzer H Siddiqui, Rabia Nazar, Shakil Ahmed, Nasim Ahmad Yasin, Aamir Ali, Soumya Mukherjee, Muhammad Hussaan, Sumera Javad, Ozair Chaudhry (2022). Spermine-mediated polyamine metabolism enhances arsenic-stress tolerance in Phaseolus vulgaris by expression of zinc-finger proteins related genes and modulation of mineral nutrient homeostasis and antioxidative system. Environmental Pollution, 300, 118941. <https://doi.org/10.1016/j.envpol.2022.118941>
3. Deepti Singh, Chandan Kumar Singh, Manzer H Siddiqui, Saud Alamri, Susheel Kumar Sarkar, Abhishek Rathore, Saroj Kumar Prasad, Dharmendra Singh, Nathi Lal Sharma, Hazem M Kalaji, Adam Brysiewicz (2022). Hydrogen Sulfide and Silicon Together Alleviate Chromium (VI) Toxicity by Modulating Morpho-Physiological and Key Antioxidant Defense Systems in Chickpea (*Cicer arietinum* L.) Varieties. Frontiers in Plant Science 13, 963394, <https://doi.org/10.3389/fpls.2022.963394>
4. Rubab Shabbir, Talha Javed, Sadam Hussain, Sunny Ahmar, Misbah Naz, Hina Zafar, Saurabh Pandey, Jyoti Chauhan, Manzer H Siddiqui, Chen Pinghua (2022). Calcium homeostasis and potential roles to combat environmental stresses in plants. South African Journal of Botany, 148, 2022, 683-693. <https://doi.org/10.1016/j.sajb.2022.05.038>
5. Manzer H Siddiqui, Hazem M Kalaji, Zhiyong Zhang, Xingmao Ma (2022). Nanoparticles in Environment and Plant System: A Boon or Bane. Chemosphere, 308, <https://doi.org/10.1016/j.chemosphere.2022.136320>
6. Manzer H Siddiqui, Soumya Mukherjee, Saud Alamri, Hayssam M Ali, Zafarul Hasan, Hazem M Kalaji (2022). Calcium and jasmonic acid exhibit synergistic effects in mitigating arsenic stress in tomato seedlings accompanied by antioxidative defense, increased nutrient accumulation and upregulation of glyoxalase system. South African Journal of Botany, 150, 14-25. <https://doi.org/10.1016/j.sajb.2022.06.030>
7. Riyazuddin Riyazuddin, Kalpita Singh, Nadeem Iqbal, Nisha Nisha, Anita Rani, Manu Kumar, Nisha Khatri, Manzer H. Siddiqui, Yasheshwar, Sun Tae Kim, Fehér Attila & Ravi Gupta (2022). Iodine: an emerging biostimulant of growth and stress responses in plants. Plant Soil (2022). <https://doi.org/10.1007/s11104-022-05750-5>
8. Saud Alamri, **Mazer H. Siddiqui,** Soumya Mukherjee, Ritesh Kumar, Hazem M. Kalaji, Mohammad Irfan , Tatiana Minkina , Vishnu D. Rajput (2021). Molybdenum-induced endogenous nitric oxide (NO) signaling coordinately enhances resilience through chlorophyll, osmolytes metabolisms and antioxidant system in arsenate stressed-wheat ( *Triticum aestivum* L.) seedlings. **Environmental Pollution,** 292, 118268
9. E. M. S. Gheith, Ola Z. El-Badry, Sobhi F. Lamlom, Hayssam M. Ali, Manzer H. Siddiqui, Rehab Y. Ghareeb, Mohamed H. El-Sheikh, Jebril Jebril, Nader R. Abdelsalam, and Essam E. Kandil (2022). Maize (Zea mays L.) Productivity and Nitrogen Use Efficiency in Response to Nitrogen Application Levels and Time. Frontiers in Plant Science, 23, 941343. <https://doi.org/10.3389/fpls.2022.941343>
10. Lyubka Koleva, Aisha Umar, Nasim Ahmad Yasin, Anis Ali Shah, **Manzer H Siddiqui,** Saud Alamri, Luqman Riaz, Ali Raza, Talha Javed, Zunera Shabbir (2022). Iron Oxide and Silicon Nanoparticles Modulate Mineral Nutrient Homeostasis and Metabolism in Cadmium-Stressed *Phaseolus vulgaris.* **Frontiers in Plant Science**, 13, 806781-806781
11. Ghulam Abbas, Sadia Rehman, Muhmmad Saqib, Muhammad Amjad, Behzad Murtaza, **Manzer H Siddiqui,** Yinglong Chen (2022). Resistance to NaCl salinity is positively correlated with iron and zinc uptake potential of wheat genotypes. **Crop and Pasture Science,** <https://doi.org/10.1071/CP21478>
12. Qamar uz Zaman, Asim Abbasi, Sobia Tabassum, Kamran Ashraf, Zahoor Ahmad, Manzer H Siddiqui, Saud Alamri, Sumaira Maqsood, Khawar Sultan (2022). Calcium induced growth, physio-biochemical, antioxidant, osmolyte adjustments and phytoconstituent status in spinach under heat stress. [South African Journal of Botany](https://www.sciencedirect.com/journal/south-african-journal-of-botany),  [149](https://www.sciencedirect.com/journal/south-african-journal-of-botany/vol/149/suppl/C), 701-711. <https://doi.org/10.1016/j.sajb.2022.06.065>
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14. Muhammad Shaharyar Khan, Muhammad Naveed, Muhammad Farhan Qadir, Muhammad Asaad Bashir, Munazza Rafique, **Manzer H Siddiqui,** Saud Alamri, Martin Brtnicky, Jiri Holatko, Adnan Mustafa (2022). Combined Effect of Animal Manures and Di-Ammonium Phosphate (DAP) on Growth, Physiology, Root Nodulation and Yield of Chickpea. **Agronomy,** 12, 674.
15. Samavia Mubeen, Iqra Shahzadi, Waheed Akram, Wajid Saeed, Nasim Ahmad Yasin, Aqeel Ahmad, Anis Ali Shah, Manzer H. Siddiqui, Saud Alamri (2022). Calcium Nanoparticles Impregnated With Benzenedicarboxylic Acid: A New Approach to Alleviate Combined Stress of DDT and Cadmium in Brassica alboglabra by Modulating Bioacummulation, Antioxidative Machinery and Osmoregulators. Frontiers in Plant Science, 13, 825829, <https://doi.org/10.3389/fpls.2022.825829>
16. Md. Nazmul Hossain, Umakanta Sarker, Md. Sharif Raihan, Asma A. Al-Huqail, Manzer H. Siddiqui, and Shinya Oba (2022). Influence of Salinity Stress on Color Parameters, Leaf Pigmentation, Polyphenol and Flavonoid Contents, and Antioxidant Activity of *Amaranthus lividus* Leafy Vegetables. Molecules, 27(6): 1821. <https://doi.org/10.3390/molecules27061821>
17. Anis Ali Shah, Shakil Ahmed, Aqsa Malik, Kishwar Naheed, Saber Hussain, Nasim Ahmad Yasin, Sumera Javad, **Manzer H Siddiqui,** Hayssam M Ali, Aamir Ali, Suleyman Allakhverdiev (2022). Potassium silicate and zinc oxide nanoparticles modulate antioxidant system, membranous H+-ATPase and nitric oxide content in faba bean (*Vicia faba*) seedlings exposed to arsenic toxicity. **Functional Plant Biology** <https://doi.org/10.1071/FP21301>
18. Samavia Mubeen, Iqra Shahzadi, Waheed Akram, Wajid Saeed, Nasim Ahmad Yasin, Aqeel Ahmad, Anis Ali Shah, **Manzer H Siddiqui,** Saud Alamri (2022). Calcium Nanoparticles Impregnated With Benzenedicarboxylic Acid: A New Approach to Alleviate Combined Stress of DDT and Cadmium in *Brassica alboglabra* by Modulating Bioacummulation, Antioxidative Machinery and Osmoregulators. **Frontiers in Plant Science,** 813, 25829-825829
19. Shuvasish Choudhury, Muhammed Khairujjaman Mazumder, Debojyoti Moulick, Parul Sharma, Sandeep Kumar Tata, Dibakar Ghosh, Hayssam M Ali, **Manzer H Siddiqui,** Marian Brestic, Milan Skalicky, Akbar Hossain (2022). A Computational Study of the Role of Secondary Metabolites for Mitigation of Acid Soil Stress in Cereals Using Dehydroascorbate and Mono-Dehydroascorbate Reductases. **Antioxidants,** 11, 458
20. Hafiz Abdul Kareem, Muhammad Farrukh Saleem, Sana Saleem, Shabir A Rather, Shabir Hussain Wani, **Manzer H Siddiqui,** Saud Alamri, Ritesh Kumar, Nikhil B Gaikwad, Zhipeng Guo, Junpeng Niu, Quanzhen Wang (2022). Zinc Oxide Nanoparticles Interplay With Physiological and Biochemical Attributes in Terminal Heat Stress Alleviation in Mungbean (*Vigna radiata* L.). **Frontiers in plant science,** 13, 842349-842349
21. Manzer H Siddiqui, Saud Alamri, Soumya Mukherjee, Abdullah A Al-Amri, Qasi D Alsubaie, Bander MA Al-Munqedhi, Hayssam M Ali, Hazem M Kalaji, Shah Fahad, Vishnu D Rajput, Om Prakash Narayan (2022). Molybdenum and hydrogen sulfide synergistically mitigate arsenic toxicity by modulating defense system, nitrogen and cysteine assimilation in faba bean (*Vicia faba L*.) seedlings. **Environmental Pollution,** 290, 117953
22. Naila Naheed, Ghulam Abbas, Muhammad Asif Naeem, Munawar Hussain, Rahat Shabbir, Saud Alamri, **Manzer H. Siddiqui** & Muhammad Zahid Mumtaz (2022). Nickel tolerance and phytoremediation potential of quinoa are modulated under salinity: multivariate comparison of physiological and biochemical attributes. **Environmental Geochemistry and Health,** <https://doi.org/10.1007/s10653-021-01165-w>
23. Tahmina Akter Urmi, Md Rahman, Md Islam, Nilufar Akhtar Jahan, Md Mia, Abdul Baset, Sohela Akhter, **Manzer H Siddiqui,** Hazem M Kalaji (2022). Integrated Nutrient Management for Rice Yield, Soil Fertility, and Carbon Sequestration. **Plants**, 11, 138.
24. Farrukh Azeem, Roshan Zameer, Muhammad Abdul Rehman Rashid, Ijaz Rasul, Sami Ul-Allah, Muhammad Hussnain Siddique, Sajid Fiaz, Ali Raza, Afifa Younas, Asima Rasool, Muhammad Amjad Ali, Sultana Anwar, **Manzer H Siddiqui (2022).** Genome-wide analysis of potassium transport genes in Gossypium raimondii suggest a role of GrHAK/KUP/KT8, GrAKT2. 1 and GrAKT1. 1 in response to abiotic stress. **Plant Physiology and Biochemistry**, 170, 110-122.
25. **Manzer H Siddiqui**, Soumya Mukherjee, Ritesh Kumar, Saleh Alansi, Anis Ali Shah, Hazem M Kalaji, Talha Javed, Ali Raza (2021). Potassium and melatonin-mediated regulation of fructose-1,6-bisphosphatase (FBPase) and sedoheptulose-1,7-bisphosphatase (SBPase) activity improve photosynthetic efficiency, carbon assimilation and modulate glyoxalase system accompanying tolerance to cadmium stress in tomato seedlings. **Plant Physiology and Biochemistry**, 171, 49-65.
26. Abid Mehmood, Khalid Naveed, Qasim Ayub, Saud Alamri, **Manzer H. Siddiqui**, Chao Wu, Depeng Wang, Shah Saud, Jan Banout, Subhan Danish, Rahul Datta, Hafiz Mohkum Hammad, Wajid Nasim, Muhammad Mubeen, Farooq Shah, Shah Fahad (2021). Exploring the potential of moringa leaf extract as bio stimulant for improving yield and quality of black cumin oil. **Scientific reports**, 11, 1-10
27. Zulfiqar, H., Shahbaz, M., Ahsan, M. et al. Strigolactone (GR24) Induced Salinity Tolerance in Sunflower (Helianthus annuus L.) by Ameliorating Morpho-Physiological and Biochemical Attributes Under In Vitro Conditions. J Plant Growth Regul 40, 2079–2091 (2021). <https://doi.org/10.1007/s00344-020-10256-4>
28. R Naz, F Gul, S Zahoor, A Nosheen, H Yasmin, R Keyani, M Shahid, MN Hassan, **MH Siddiqui**, S Batool, Z Anwar, N Ali, TH Roberts (2021). Interactive effects of hydrogen sulphide and silicon enhance drought and heat tolerance by modulating hormones, antioxidant defence enzymes and redox status in barley (*Hordeum* vulgare L.). **Plant Biology**, <https://doi.org/10.1111/plb.13374>
29. Saud Alamri, **Manzer H Siddiqui**, Bishwajit Kumar Kushwaha, Vijay Pratap Singh, Hayssam M Ali (2021). Mitigation of arsenate toxicity by indole-3-acetic acid in brinjal roots: Plausible association with endogenous hydrogen peroxide. **Journal of Hazardous Materials**, 405, 124336.
30. **Manzer H Siddiqui**, Saud Alamri, Soumya Mukherjee, Abdullah A Al-Amri, Qasi D Alsubaie, Bander MA Al-Munqedhi, Hayssam M Ali, Hazem M Kalaji, Shah Fahad, Vishnu D Rajput, Om Prakash Narayan (2021). Molybdenum and hydrogen sulfide synergistically mitigate arsenic toxicity by modulating defense system, nitrogen and cysteine assimilation in faba bean (*Vicia faba* L.) seedlings. **Environmental Pollution**, 290, 117953
31. **Manzer H. Siddiqui,** M. Nasir Khan, Soumya Mukherjee, Saud Alamri, Riyadh A. Basahi, Abdullah A. Al-Amri, Qasi D. Alsubaie, Bander M. A. Al-Munqedhi, Hayssam M. Ali, Ibrahim A. A. Almohisen (2021). Hydrogen sulide (H2S) and potassium (K+) synergistically induce drought stress tolerance through regulation of H+-ATPase activity, sugar metabolism and antioxidative defense in tomato seedlings. **Plant Cell Reports,** [**https://doi.org/10.1007/s00299-021-02731-3**](https://doi.org/10.1007/s00299-021-02731-3)
32. Saud Alamri, Bishwajit Kumar Kushwaha, Vijay Pratap Singh, **Manzer H Siddiqui**, Abdullah A Al‐Amri, Qasi D Alsubaie, Hayssam M Ali (2021). Ascorbate and glutathione independently alleviate arsenate toxicity in brinjal but both require endogenous nitric oxide, **Physiologia Plantarum, 4, 7.**
33. Muhammad Zahir Shah, Zheng‐Hui Guan, Ala Ud Din, Amjad Ali, Ata Ur Rehman, Kashif Jan, Shah Faisal, Shah Saud, Muhammad Adnan, Fazli Wahid, Saud Alamri, **Manzer H. Siddiqui,** Shamsher Ali, Wajid Nasim, Hafiz Mohkum Hammad, Shah Fahad (2021). Synthesis of silver nanoparticles using Plantago lanceolata extract and assessing their antibacterial and antioxidant activities. **Scientific Reports**, <https://doi.org/10.1038/s41598-021-00296-5>
34. **Manzer H. Siddiqui,** MN Khan, S Mukherjee, RA Basahi, S Alamri, AA Al‑Amri, QD Alsubaie, HM Ali, BMA Al‐Munqedhi, IAA Almohisen (2021). Exogenous melatonin-mediated regulation of K+/Na+ transport, H+-ATPase activity and enzymatic antioxidative defence operate through endogenous hydrogen sulphide signalling in NaCl-stressed tomato seedling roots. **Plant Biology,** 23, 797-805.
35. Rabia Naz, Sana Batool, Muhammad Shahid, Rumana Keyani, Humaira Yasmin, Asia Nosheen, Muhammad Nadeem Hassan, Saqib Mumtaz, **Manzer H. Siddiqui** (2021). Exogenous silicon and hydrogen sulfide alleviates the simultaneously occurring drought stress and leaf rust infection in wheat. **Plant Physiology and Biochemistry,** 166, 558-571.
36. M Iqbal R Khan, Nafees A Khan, Badar Jahan, Vaishali Goyal, Jasie Hamid, Samar Khan, Noushina Iqbal, Saud Alamri, **Manzer H Siddiqui** (20210) Phosphorus supplementation modulates nitric oxide biosynthesis and stabilizes the defence system to improve arsenic stress tolerance in mustard. **Plant Biology**, **23, 152-161**
37. M Nasir Khan, Soumya Mukherjee, Asma A Al-Huqail, Riyadh A Basahi, Hayssam M Ali, Bander Al-Munqedhi, **Manzer H Siddiqui**, Hazem M Kalaji (2021). Exogenous Potassium (K+) Positively Regulates Na+/H+ Antiport System, Carbohydrate Metabolism, and Ascorbate–Glutathione Cycle in H2S-Dependent Manner in NaCl-Stressed Tomato Seedling Roots. **Plants, 10(5), 948**
38. Israt Jahan Harine, Mohammad Rafiqul Islam, Mahmud Hossain, Hasina Afroz, Rounok Jahan, Abu Bakkar Siddique, Shihab Uddin, Mohammad Anwar Hossain, Saud Alamri, **Manzer H Siddiqui**, Robert J Henry (2021). Arsenic Accumulation in Rice Grain as Influenced by Water Management: Human Health Risk Assessment. **Agronomy,** 9, 1741.
39. Laibah Nomani, Andleeb Zehra, Sadaf Choudhary, Kaiser Iqbal Wani, M Naeem, **Manzer H Siddiqui,** M Masroor A Khan, Tariq Aftab (2021) Exogenous hydrogen sulphide alleviates copper stress impacts in *Artemisia annua* L.: Growth, antioxidant metabolism, glandular trichome development and artemisinin biosynthesis. **Plant Biology, 3, 7.**
40. Maria Mussarat, Hazrat Ali, Dost Muhammad, Ishaq Ahmad Mian, Shadman Khan, Muhammad Adnan, Shah Fahad, Fazli Wahid, Khadim Dawar, Shamsher Ali, Afia Zia, Manzoor Ahmad, Sowm Khan, Wajid Ali Shah, Muhammad Romman, Rainaz Parvez, **Manzer H Siddiqui,** Abid Khan, Depeng Wang, Xue Jiang (2021). Comparing the phosphorus use efficiency of pre-treated (organically) rock phosphate with soluble P fertilizers in maize under calcareous soils. **PeerJ,** 9, e11452
41. Muhammad Naveed, Muhammad K. Aslam, Zulfiqar Ahmad, Tasawar Abbas, Asma A. Al-Huqail, **Manzer H. Siddiqui,** Hayssam M. Ali, Irfan Ashraf, Adnan Mustafa (2021). Growth Responses, Physiological Alterations and Alleviation of Salinity Stress in Sunflower (*Helianthus annuus* L.) Amended with Gypsum and Composted Cow Dung. **Sustainability**, 13, 6792.
42. Asif Ullah Khan, Faizan Ullah, Naeem Khan, Sultan Mehmood, Shah Fahad, Rahul Datta, Inam Irshad, Subhan Danish, Shah Saud, Ibrahim A Alaraidh, Hayssam M Ali, **Manzer H Siddiqui,** Zalan Alam Khan, Shah Masud Khan, Ghulam Sabir Hussain (2021). Production of organic fertilizers from rocket seed (Eruca Sativa L.), chicken peat and Moringa oleifera leaves for growing linseed under water deficit stress**. Sustainability,** 13, 59.
43. Muzammal Rehman, Muhammad Hamzah Saleem, Shah Fahad, Saqib Bashir, Dingxiang Peng, Gang Deng, Saud Alamri, **Manzer H Siddiqui**, Shah Masaud Khan, Ruidar Ali Shah, Lijun Liu (2021). Effects of rice straw biochar and nitrogen fertilizer on ramie (*Boehmeria nivea* L.) morpho-physiological traits, copper uptake and post-harvest soil characteristics, grown in an aged-copper contaminated soil. **Journal of Plant Nutrition**, 1-14.
44. Heena Rasool Mir, Shiv Kumar Yadav, Sezai Ercisli, Asma A Al-Huqail, Dina A Soliman, **Manzer H Siddiqui**, Saleh Alansi, Sangita Yadav (2021). Association of DNA biosynthesis with planting value enhancement in hydroprimed maize seeds. **Saudi Journal of Biological Sciences, 28, 2634-40**
45. Ahmed A Abdelhafez, Khaled E Eid, Sozan E El-Abeid, Mohamed HH Abbas, Nevin Ahmed, Rasha RME Mansour, Guoyan Zou, Javed Iqbal, Shah Fahad, Amr Elkelsih, Saud Alamri, **Manzer H. Siddiqui,** Ibrahim Mohamed (2021). Application of soil biofertilizers to a clayey soil contaminated with Sclerotium rolfsii can promote production, protection and nutritive status of Phaseolus vulgaris. **Chemosphere, 271, 129321**
46. Muhammad Arfan-ul-Haq, Muhammad Yaseen, Muhammad Naveed, Adnan Mustafa, Sulman Siddique, Saud Alamri, **Manzer H Siddiqui**, Abdullah A Al-Amri, Qasi D Alsubaie, Hayssam M Ali (2021). Deciphering the potential of bioactivated rock phosphate and di-ammonium phosphate on agronomic performance, nutritional quality and productivity of wheat (*Triticum aestivum* L.). **Agronomy,** 11, 684.
47. Musarrat Ramzan, Sundas Sana, Nida Javaid, Anis Ali Shah, Samina Ejaz, Waqas Nazir Malik, Nasim Ahmad Yasin, Saud Alamri, **Manzer H Siddiqui,** Rahul Datta, Shah Fahad, Nazia Tahir, Sidra Mubeen, Niaz Ahmed, Muhammad Arif Ali, Ayman El Sabagh, Subhan Danish (2021). Mitigation of bacterial spot disease induced biotic stress in *Capsicum annuum* L. cultivars via antioxidant enzymes and isoforms. **Scientific reports**, 11, 1-10.
48. Ahmed A Abdelhafez, Khaled E Eid, Sozan E El-Abeid, Mohamed HH Abbas, Nevin Ahmed, Rasha RME Mansour, Guoyan Zou, Javed Iqbal, Shah Fahad, Amr Elkelsih, Saud Alamri, **Manzer H Siddiqui**, Ibrahim Mohamed (2021). Application of soil biofertilizers to a clayey soil contaminated with Sclerotium rolfsii can promote production, protection and nutritive status of *Phaseolus vulgaris*. **Chemosphere, 271, 129321,**
49. M Nasir Khan, **Manzer H Siddiqui,** Soumya Mukherjee, Saud Alamri, Abdullah A Al-Amri, Qasi D Alsubaie, Bander MA Al-Munqedhi, Hayssam M Ali (2021). Calcium-hydrogen sulfide crosstalk during K+-deficient NaCl stress operates through regulation of Na+/H+ antiport and antioxidative defense system in mung bean roots. **Plant Physiology and Biochemistry,** 159, 211-225.
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Abstract published in Conference

1. Hayssam M. Ali, Saud A. Alamri, Mohamed Z. M. Salem and **Manzer H. Siddiqui** (2017). Effects of Irrigation with Sewage Effluent on Eucalyptus camaldulensis Seedlings. The 32nd Meeting of Saudi Biological Society "Human and Environmental Development in Vision 2030" Held in Umm Al-Qura University Makkah Al-Mukarramah, 21-23 Rajab,1438H (18-20 April, 2017).
2. Mohammed A. Al-Qutami, **Manzer H. Siddiqui**, Saud A. Alamri, Mutahhar Y. Y. Al-Khaishany and Hayssam M. Ali (2017). Physiological and Biochemical Role of Ascorbic Acid in Mitigating Salt Stress in Wheat Plants. The 32nd Meeting of Saudi Biological Society "Human and Environmental Development in Vision 2030" Held in Umm Al-Qura University Makkah Al-Mukarramah, 21-23 Rajab,1438H (18-20 April, 2017).
3. Mutahhar Y. Y. Al-Khaishany, Saud A. Alamri, **Manzer H. Siddiqui**, Mohammed A. Al-Qutami and Hayssam M. Ali (2017). Exogenous Application of Salicylic Acid Improves Tolerance of Wheat Plants to Lead Stress. The 32nd Meeting of Saudi Biological Society "Human and Environmental Development in Vision 2030" Held in Umm Al-Qura University Makkah Al-Mukarramah, 21-23 Rajab,1438H (18-20 April, 2017).
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7. Ahmed M. Sakran, Mohamed. H. Al-Whaibi, **Manzer H. Siddiqui,** Hayssam M. Ali, Mohammed O. Basalah (2011). Role Calcium and Potassium in Tolerance of Faba bean L. Plant to Cadmium Toxicity. The 26th Meeting of Saudi Biological Society, Climate Change and Biodiversity, Taif University from May 10- 12- 2011.
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9. Mohamed H. Al-Whaibi, Mohammed O. Basalah, **Manzer H. Siddiqui,** Ahmed M. Sakran and Hayssam M. Ali (2011). Salicylic Acid and Calcium -Induced Salinity Tolerance in *Triticum aestivum* L. Grown Under Salt Stress. The 26th Meeting of Saudi Biological Society, Climate Change and Biodiversity, Taif University from May 10- 12- 2011.
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13. **Siddiqui M.H.**, Mohammad F., Khan M.N., Naeem M., Khan M.M.A. (2009). Nitrogen alleviates salt stress in Brssica juncea genotypes by inducing nitrogen metabolism and antioxidative defense system. International SFRR Satellite Symposium on “Free Radicals in Health and Disease”. Organized by Department of Biochemistry, Aligarh Muslim University, Aligarh 202002 U.P., India from March 17 to 18, 2009.
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15. **Siddiqui M.H.**, Mohammad F., Khan M.N., Naeem M.,Khan M.M.A. (2008). Nitrogen and Gibberellic acid Application Offsets the Ill Effect of Salt Stress in Mustard. 5th International Crop Science Congress & Exhibition(ICSC 2008), from April 13-18, 2008 at Jeju, Korea.
16. **Siddiqui M.H.**, Mohammad F., Khan M.N. (2006). Physio-biochemical response of erucic acid free genotypes of rapeseed- mustard to the nutrient application. “National Seminar on New strides in Microbiology, Biotechnology & Agricultural Sciences” from February 3 & 4, at Dehradun, India.
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18. Afroz S., Mohammad F., Hayat S., **Siddiqui M.H**. (2003). Gibberellic acid spray on mustard offsets the ill effects of pre-sowing seed treatment with sodium chloride. “National Symposium on Plant Biology and Biodiversity in Changes Environment” from November 29-31, 2003 at New Delhi, India.
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20. **Siddiqui M.H.**, Mujibur-Rahman M., Khan M.M.A., Mohammad F., Naeem M. (2003). Triacontanol-induced changes in growth, yield and quality of tomato. “National Symposium on Plant Biology and Biodiversity in Changes Environment” November 29-31, 2003 at New Delhi, India.
21. Naeem M., Khan M.M.A., **Siddiqui M.H.** (2003). Effect of phosphorus fertilization on physiomorphological characteristics of Hyacinth Bean (Dolichus lablab L.). “Emerging Trends in Indian Medicinal Plants” organized by National Medicinal Plants Board. Govt. of India and U.P. Council of Science and Technology, October 10-12 at Lucknow, India.
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23. Khan M.M.A., **Siddiqui M.H.**, Samiullah (2000). Hill reaction, photosynthesis and chlorophyll content in Sugar Producing (sugarbeet, Beta valgaris L.) and Non-sugar Producing (turnip, Brassica rapa L.) Root Crop Plants. National Seminar on “Plant Physiological Paradigm for Fostering Agro and Biotechnology and Augmenting Environmental Productivity in Millennium 2000,” Organized by Indian Society for Plant Physiology from November 7 to 9, 2000 at Lucknow, India.

**DNA sequences submitted to GenBank**

*Vicia faba* (Faba Bean). KC249973

Workshops/training program

►Short Term training program on “Sustainable Improvement in Plant Productivity Under Stress Environments”, organized by The Centre of Advanced Studies in Plant Physiology, N.D. University of Agriculture & Technology, Kumarganj, Faizabad from 20 November – 12 December, 2008

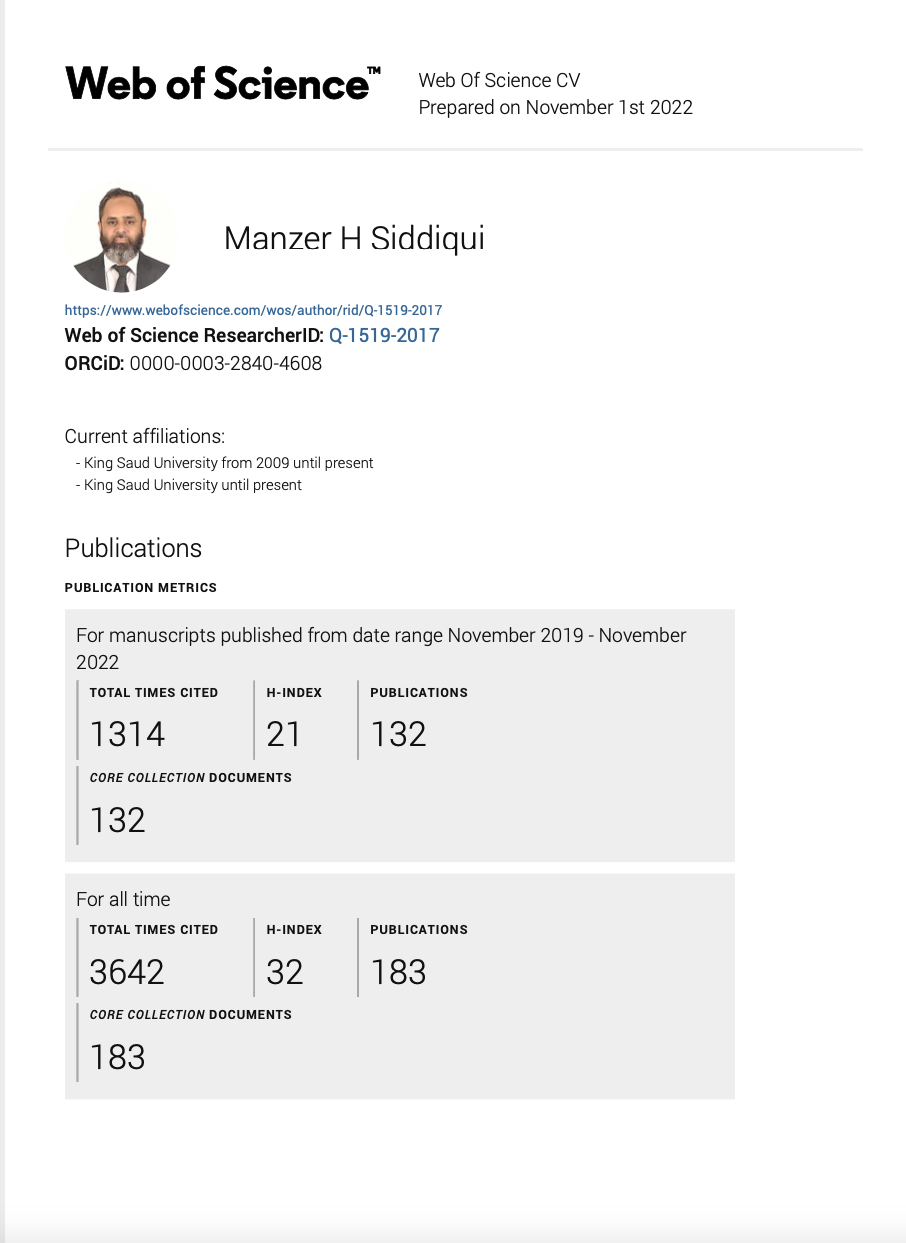
►Organized a training program on “Molecular Biology and Heat Stress Response” at Department of Botany and Microbiology, College of Science, King Saud University, December 7-8, 2015

Workshops/training program

►National Environmental Science Academy (NESA), New Delhi

►Saudi Biological Society (SBS), Saudi Arabia, Riyadh

Web of Science Profile



Editorial Experience

1. Envoromental Pollution-Elsevier
2. Scientific Reports-Springer Nature
3. Forntiers in Plant Sceince
4. Guest Editor: Plant Cell Reports (Springer) <https://www.springer.com/journal/299/updates/18312682>
5. Guest Editor: Chemosphere: <https://www.journals.elsevier.com/chemosphere/call-for-papers/nanoparticles-in-environment>
6. Guest Editor: Plants (MDPI) <https://www.mdpi.com/journal/plants/special_issues/mineral_nutrients_environmental>
7. Guest Editor: Frontiese in Plant Sceinces <https://www.frontiersin.org/research-topics/16000/plants-and-soil-contaminants-alleviation-and-tolerance-strategies-for-improving-sustainable-crop-pro>
8. Guest Editor: Plant Biology (Wiley) <https://onlinelibrary.wiley.com/pb-assets/assets/14388677/Emerging-Roles-of-Hydrogen-Sulfide-as-a-Signaling-Molecule-in-Plant-Biology-1604667204147.pdf>

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Teaching courses in KSU

Plant Physiology Abiotic stress Physiology for M.Sc. and Ph.D. students

Plant Nutrition for undergraduate students