

Atique ur Rehman



Institute of Agronomy, Bahauddin Zakariya University, Multan, Pakistan.

Personnel	Phone Number +92 321 7809571; +92 332 6924434		
	E-mail dr.atique@bzu.edu.pk , atiqjugg@gmail.com , a.rehmanuaf@gmail.com		
Professional Qualification	PhD		
Service Experience	Position held	Organization served	Period of Service
	Associate Professor	Institute of Agronomy, Bahauddin Zakariya University, Multan	16-01-2021 to date
	Assistant Professor	Department of Agronomy, Bahauddin Zakariya University, Multan	21-08-2013 to 15-01-2021
	Assistant Professor	Department of Agronomy, Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi	02-08-2012 to 01-08-2013
	Visiting Research Scholar	Hong Kong Baptist University, Hong Kong	24-06-2011 to 02-12-2011
	Research Fellow	University of Agriculture, Faisalabad	07-06-2006 to 02-06-2007
Honors/Awards	<div>1. On the approved list of Higher Education Commission (HEC) to act as Research Supervisor of Ph.D. scholars</div> <div>2. Scholarship for Ph.D. program from Higher Education Commission, Islamabad, Pakistan.</div>		
Number of M Phil /PhD students	M.Phil. Completed: 25 In Progress: 2	PhD Completed: 5 In Progress: 5	
Membership of Societies/Group	<div>1. Life member, Pakistan Society of Agronomy</div> <div>2. Life member, Weed Science Society of Pakistan</div> <div>3. Member, Soil Science Society of Pakistan</div> <div>4. Member advisory board, Asian Journal of Agriculture and Biology</div>		
Foreign Trainings	<div>1. Travelled to China for Training participation (September 06, 2018 to September 27, 2018)</div> <div>2. Travelled to Hong Kong for six months training (June 24, 2011 to December 02, 2011)</div> <div>3. Travelled to China for conference participation (August 26, 2011 to August 28, 2011)</div>		
Research Project	<div>1. “Improving production and micronutrient enrichment of mungbean in southern Punjab” 4.22 M funded by Higher Education Commission, Pakistan under NRPU.</div> <div>2. “Improving the Performance of Wheat by Boron Application under Drought” Rs. 0.5 M funded by Higher Education Commission, Pakistan. (Completed)</div> <div>3. “Basal application of boron and zinc on growth and yield of maize under different irrigation regimes” Rs. 0.2 M funded by Bahauddin Zakariya University, Multan. (Completed)</div> <div>4. “Effect of seed coating with boron and zinc on seed germination, growth and yield maize” Rs. 0.2 M funded by Bahauddin Zakariya University, Multan. (Completed)</div> <div>5. “Coping with irrigation deficit in maize by exogenous application of salicylic acid” Rs. 0.19 M funded by Bahauddin Zakariya University, Multan. (Completed)</div> <div>6. “Improving sunflower performance by exogenous application of salicylic acid” Rs. 0.25 M funded by Bahauddin Zakariya University, Multan. (Completed)</div> <div>7. “Biofortification of wheat by foliar application of boron” Rs. 0.20 M funded by Bhauddin Zakariya University, Multan. (Completed)</div>		

8. **“Improving sorghum forage and yield by Judicious Phosphorous and Potassium application”**
0.65 M funded by ASLP dairy project of Australian government. (Completed)
9. **“Improving wheat performance by exogenous application of boron under changing climate”**
Rs. 0.20 M funded by Bhauddin Zakariya University, Multan. (Completed)

Publications

Books	<p>Modern Techniques of Rice Crop Production. Naeem Sarwar, Atique-ur-Rehman, Shakeel Ahmad, Mirza Hassanuzzaman. (Editors). Springer Nature Singapore Pte Ltd., 152 Beach Road, #21-01/04 Gateway East, Singapore 189721, Singapore.</p> <p>Rehman, A. and Ehsanullah. 2012. Multinutrient spray on sugarcane planted at different row spacings. LAP LAMBERT Academic Publishing GmbH & Co. KG Heinrich-Böcking-Str. 6-8, 66121, Saarbrücken, Germany.</p>
Book Chapters (20)	<p>Muhammad Tariq, Zartash Fatima, Atique ur Rehman, Mukhtar Ahmad, Shakeel Ahmad. 2024. Digital Agriculture. In book: Principles of Field Crop Production. Publisher: Pakistan Agriculturist Scientists Forum (PAS Forum).</p> <p>Naeem Sarwar, Khuram Mubeen, Atique-ur-Rehman, Omer Farooq, Allah Wasaya, Tauqeer Ahmad Yasir, Muhammad Shahzad, Mansoor Javed, Abrar Hussain, Masood Iqbal Awan, Muhammad Dawood and Shakeel Ahmad. 2023. Impact of Heat Stress on Cereal Crops and Its Mitigation Strategies. In: Ahmed, M., Ahmad, S. (eds) Disaster Risk Reduction in Agriculture. Disaster Resilience and Green Growth. Springer, Singapore. https://doi.org/10.1007/978-981-99-1763-1_10.</p> <p>Rafi Qamar, Atique-ur-Rehman, Shafaat, S., Javeed, H.M.R. 2023. Management of Crops in Water-Logged Soil. In: Ahmed, M., Ahmad, S. (eds) Disaster Risk Reduction in Agriculture. Disaster Resilience and Green Growth. Springer, Singapore. https://doi.org/10.1007/978-981-99-1763-1_12.</p> <p>Omer Farooq, Naeem Sarwar, Sohaib Afzal, Khuram Mubeen, Atique ur Rehman, Mukhtar Ahmed and Shakeel Ahmad. 2023. Disaster Risk Reduction in Agriculture. In: Ahmed, M., Ahmad, S. (eds) Disaster Risk Reduction in Agriculture. Disaster Resilience and Green Growth. Springer, Singapore. https://doi.org/10.1007/978-981-99-1763-1_2.</p> <p>Hafiz Muhammad Rashad Javeed, Mazhar Ali, Muhammad Shahid Ibni Zamir, Rafi Qamar, Muhammad Mubeen, Atique-ur-Rehman, Muhammad Shahzad, Samina Khalid, Ayman EL Sabagh. 2023. Ectomycorrhizal Fungi: Role as Bio-fertilizers in Forestry. In: Shah Fahad, Shah Saud, Fazli Wahid, Muhammad Adnan (Eds). Biofertilizers for Sustainable Soil Management. Boca Raton, CRC press. https://doi.org/10.1201/9781003286233.</p> <p>Hafiz Muhammad Rashad Javeed, Mazhar Ali, Muhammad Shahid Ibni Zamir, Rafi Qamar, Atique-ur-Rehman, Hina Andleeb, Najma Qammar, Sonia Kanwal, Abu Bakr Umer Farooq, Maham Tariq, Muhammad Tariq, Muhammad Shahzad, Raheela Jabeen, Muhammad Zahid Ihsan, Iftikhar Ahmad, Hasseb ur Rehman, and Ayman E.L. Sabagh. 2023. Biochar Application to Soil for Mitigation of Nutrients Stress in Plants. In: Fahad, S., Danish, S., Datta, R., Saud, S., Lichtfouse, E. (eds) Sustainable Agriculture Reviews 61. Sustainable Agriculture Reviews, vol 61. Springer, Cham. https://doi.org/10.1007/978-3-031-26983-7_8.</p> <p>Mazhar Ali, Hafiz Muhammad Rashaad Javeed, Maham Tariq, Rafi Qamar, Farah Deebea, Atique-ur-Rehman, Muhammad Zahid Ihsan, Disna Ratnasekera, Ali Raza, Muhammad Shahid Ibni Zamir, Amr Elkelish, Faisal Zulfikar, Nasir Masood, Aqsa Abbas Khan, Muhammad Mubeen. 2023. Climate and development. In: Jatoi, W.N., Mubeen, M., Hashmi, M.Z., Ali, S., Fahad, S., Mahmood, K. (eds) Climate Change Impacts on Agriculture. Springer, Cham. https://doi.org/10.1007/978-3-031-26692-8_11.</p> <p>Atique-ur-Rehman, Naeem Sarwar, Shakeel Ahmad, Muhammad Azam Khan, and Mirza Hasanuzzaman. 2022. World Rice Production: An Overview. In: Modern Techniques of Rice Crop Production. Naeem Sarwar, Atique-ur-Rehman, Shakeel Ahmad, Mirza Hassanuzzaman. (Editors). Springer Nature Singapore Pte Ltd., 152 Beach Road, #21-01/04 Gateway East, Singapore 189721, Singapore.</p> <p>Naeem Sarwar, Atique-ur-Rehman, Hakoomat Ali, Allah Wasaya, Omer Farooq, Khuram Mubeen, Muhammad Dawood, Muhammad Shehzad and Shakeel Ahmad. 2022. Smart Nutrient Management in Rice Crop. In: Sarwar, N., Atique-ur-Rehman, Ahmad, S., Hasanuzzaman, M. (eds) Modern Techniques of Rice Crop</p>

**Research
Articles
(Total 83)**

- Production . Springer, Singapore. https://doi.org/10.1007/978-981-16-4955-4_7.
- Allah Wasaya, Tauqeer Ahmad Yasir, Naeem Sarwar, **Atique-ur-Rehman**, Khuram Mubeen, Karthika Rajendran, Adel Hadifa, and Ayman E. L. Sabagh. **2022**. Climate Change and Global rice Security. In: **Modern Techniques of Rice Crop Production**. Naeem Sarwar, **Atique-ur-Rehman**, Shakeel Ahmad, Mirza Hassanuzzaman.^[1]_{SEP}(Editors). **Springer Nature Singapore Pte Ltd.**, 152 Beach Road, #21-01/04 Gateway East, Singapore 189721, Singapore.
- Naeem Sarwar, Hakoomat Ali, **Atique-ur-Rehman**, Allah Wasaya, Omer Farooq, Khuram Mubeen, Muhammad Dawood, Muhammad Shehzad, and Shakeel Ahmad. **2022**. Nursery Management of Transplanted Rice. In: **Modern Techniques of Rice Crop Production**. Naeem Sarwar, **Atique-ur-Rehman**, Shakeel Ahmad, Mirza Hassanuzzaman.^[1]_{SEP}(Editors). **Springer Nature Singapore Pte Ltd.**, 152 Beach Road, #21-01/04 Gateway East, Singapore 189721, Singapore.
- Naeem Sarwar, **Atique-ur-Rehman**, Allah Wasaya, Omer Farooq, Khuram Mubeen, Muhammad Dawood, Muhammad Shehzad, and Shakeel Ahmad. **2022**. Rice-Based Cropping Systems. In: **Modern Techniques of Rice Crop Production**. Naeem Sarwar, **Atique-ur-Rehman**, Shakeel Ahmad, Mirza Hassanuzzaman. (Editors). **Springer Nature Singapore Pte Ltd.**, 152 Beach Road, #21-01/04 Gateway East, Singapore 189721, Singapore.
- Muhammad Naveed, Naeem Sarwar, Khuram Mubeen, **Atique-ur Rehman**, Omer Farooq, Allah Wasaya, Tauqeer Ahmad Yasir. **2024**. Elevated auxin levels during thereproductive stage improve rice cropproductivity and grain quality. **Acta Agrobotanica**, 77, [DOI: https://doi.org/10.5586/aa/188711](https://doi.org/10.5586/aa/188711).
- Muhammad Mohsin Altaf, Sahrish Ashraf, Muhammad Qaisar Naeem Khan, Sibgha Noreen, Muhammad Anwar, Rafa Almeer, Rattandeep Singh, **Atique ur Rehman**. **2024**. Silicon oxide nanoparticle mitigated the vanadium toxicity in Cucumber (*Cucumis sativus* L.). **South African Journal of Botany**, **170**: **348-357**.
- Muhammad Saqib, Ahlam Khalofah, **Atique ur Rehman**, Muhammad Ahsan Altaf. **2024**. Alleviating effects of exogenous melatonin on nickel toxicity in two pepper genotypes. **Scientia Horticulturae** **325**, **112635**.
- Hafiz Saqib Hayat, **Atique-ur Rehman**, Shahid Farooq, Muhammad Naveed, Hayssam M. Ali, Mubshar Hussain. **2023**. Boron seed coating combined with seed inoculation with boron tolerant bacteria (*Bacillus* sp. MN-54) and maize stalk biochar improved growth and productivity of maize (*Zea mays* L.) on saline soil. **Heliyon**, 9(11): e22075.
- Mukhtar Ahmed, **Atique ur Rehman**, Naeem Sarwar, Hülya Doğan, Ghulam Abbas, Muhammad Azam Khan, Mustafa Kan, Muhammad Ali Raza, Sajjad Hussain, Shakeel Ahmad, and Zartash Fatima. **2023**. Deciding sowing-window for maize-based cropping system in arid and semi arid environments in Punjab, Pakistan. **Türk Tarım ve Ormancılık Dergisi/Turkish Journal of Agriculture and Forestry**, 47:1078-1098.
- Naeem Sarwar, Naseem Abbas, Omer Farooq, Muhammad Akram, Muhammad Waqar Hassan, Khuram Mubeen, **Atique-ur Rehman**, Muhammad Shehzad, Matlob Ahmad and Abdul Khaliq. **2023**. Biochar Integrated Nutrient Application Improves Crop Productivity, Sustainability and Profitability of Maize–Wheat Cropping System. **Sustainability**, 15, 2232. <https://doi.org/10.3390/su1503223>
- Muhammad Waseem Riaz Marral, Fiaz Ahmad, Sami Ul-Allah, **Atique-ur-Rehman**, Shahid Farooq and Mubshar Hussain. **2023**. Influence of Transgenic (Bt) Cotton on the Productivity of Various Cotton-Based Cropping Systems in Pakistan. **Agriculture**, 13, 276. <https://doi.org/10.3390/agriculture13020276>.
- Atique ur Rehman**, Xiukang Wang, Abid Hussain, Rafi Qamar, Ahlam Khalofah, Mubshar Hussain. **2022**. Boron Application in Yermosols Improves Grain Yield and Quality of Chickpea (*Cicer arietinum* L.). **Journal of King Saud University**, 34 (2022) 101768. (IF: 3.829)
- Atique-ur-Rehman**, Rafi Qamar, Muhammad Mohsin Altaf, Mona S. Alwahibi, Rashid Al-Yahyai and Mubshar Hussain. **2022**. Phosphorus and Potassium Application Improves Fodder Yield and Quality of Sorghum in Aridisol under Diverse Climatic Conditions. **Agriculture**, 12, 593. [ttps://doi.org/10.3390/agriculture12050593](https://doi.org/10.3390/agriculture12050593). (IF: 3.408).

- Muhammad Mohsin Altaf, Xiaoping Diao, Haihua Wang, Latif Ullah Khan, **Atique ur Rehman**, Awais Shakoor, Muhammad Ahsan Altaf, Taimoor Hassan Farooq. **2022**. Salicylic Acid Induces Vanadium Stress Tolerance in Rice by Regulating the AsA-GSH Cycle and Glyoxalase System. **Journal of Soil Science and Plant Nutrition**, <https://doi.org/10.1007/s42729-022-00788-x>. (IF: 3.610)
- Muhammad Mohsin Altaf, Xiao-ping Diao, Muhammad Ahsan Altaf, **Atique ur Rehman**, Awais Shakoor, Latif Ullah Khan, Basit Latief Jan, Parvaiz Ahmad. **2022**. Silicon-mediated metabolic upregulation of ascorbate glutathione (AsA-GSH) and glyoxalase reduces the toxic effects of vanadium in rice. **Journal of Hazardous Materials**. 436:129145. (IF: 14.224).
- Hafiz Muhammad Rashad Javeed, Xiukang Wang, Mazhar Ali, Fahim Nawaz, Rafi Qamar, **Atique ur Rehman**, Muhammad Shehzad, Muhammad Mubeen, Rubab Shabbir, Talha Javed, Ferdinando Branca, Sunny Ahmar and Ismail A. Ismail. **2021**. Potential Utilization of Diluted Seawater for the Cultivation of Some Summer Vegetable Crops: Physiological and Nutritional Implications. **Agronomy**, 11: 1-14. (IF: 3.417)
- Allah Wasaya, Tauqeer Ahmad Yasir, Naeem Sarwar, Omer Farooq, **Atique ur Rehman**, Khuram Mubeen, Muqarrab Ali, Muhammad Affan, Ahsan Aziz. **2021**. Foliage applied potassium improves stay green, photosynthesis and yield of maize (*Zea mays* L.) under rainfed condition. **Plant Physiology Reports**, 26: 38-48.
- Allah Wasaya, Muhammad Affan, Tauqeer Ahmad Yasir, **Atique-ur-Rehman**, Khuram Mubeen, Haseeb ur Rehman, Muqarrab Ali, Farukh Nawaz, Ahmed Galal, Muhammad Aamir Iqbal, Mohammad Sohaidul Islam, Mohamed El-Sharnouby, Muhammad Habib ur Rahman and Ayman EL Sabagh. **2021**. Foliar Potassium Sulfate Application Improved Photosynthetic Characteristics, Water Relations and Seedling Growth of Drought-Stressed Maize. **Atmosphere**, 12: 1-13 (IF: 2.686).
- Hasan Sardar, Safina Naz, Shaghef Ejaz, Omer Farooq, **Atique-ur Rehman**, Muhammad Sameem Javed, Gulzar Akhtar. **2021**. Effect of foliar application of zinc oxide on growth and photosynthetic traits of cherry tomato under calcareous soil conditions. **Acta Scientiarum Polonorum-Hortorum Cultus**, 20: 91-99. (IF: 0.673).
- Naeem Sarwar, **Atique-ur-Rehman**, Omer Farooq, Allah Wasaya, Mubshar Hussain, Ahmed M. El-Shehawi, Shakeel Ahmad, Marian Brestic, Samy F. Mahmoud, Marek Zivcak, Shahid Farooq. **2021**. Integrated nitrogen management improves productivity and economic returns of wheat-maize cropping system. **Journal of King Saud University – Science**, 33: 1-7. (IF: 4.011).
- Hafiz Muhammad Rashad Javeed, Mazhar Ali, Milan Skalicky, Fahim Nawaz, Rafi Qamar, **Atique ur Rehman**, Maoz Faheem, Muhammad Mubeen, Muhammad Mohsin Iqbal, Muhammad Habib ur Rahman, Pavla Vachova, Marian Brestic, Alaa Baazeem and Ayman EL Sabagh. **2021**. Lipoic Acid Combined with Melatonin Mitigates Oxidative Stress and Promotes Root Formation and Growth in Salt-Stressed Canola Seedlings (*Brassica napus* L.). **Molecules**, 26: 1-16. (IF: 4.412)
- Rafi Qamar, **Atique ur Rehman**, Hafiz Muhammad Rashad Javeed, Abdul Rehman, Muhammad Ehsan Safdar, Hasna Ali & Shakeel Ahmad. **2021**. Tillage Systems Affecting Rice-Wheat Cropping System. **Sains Malaysiana**, 50: 1543-1562. (IF: 1.009).
- Hakoomat Ali, Naeem Sarwar, Shah Muhammad, Omer Farooq, **Atique-ur Rehman**, Allah Wasaya, Tauqeer Ahmad Yasir, Khuram Mubeen and Muhammad Naeem Akhtar. **2021**. Foliar Application of Magnesium at Critical Stages Improved the Productivity of Rice Crop Grown under Different Cultivation Systems. **Sustainability**, 13: 1-11. (IF: 3.251).
- Omer Farooq, Muqarrab Ali, Naeem Sarwar, **Atique ur Rehman**, Muhammad Mazhar Iqbal, Tayyaba Naz, Muhammad Asghar, Fahid Ehsan, Muhammad Nasir, Qari Muhammad Hussain, Sohaib Afzal. **2021**. Foliar applied brassica water extract improves the seedling development of wheat and chickpea. **Asian Journal of Agriculture and Biology**, DOI: 10.35495/ajab.2020.04.219.
- Abdul Rehman, Farwa Hassan, Rafi Qamar, **Atique-ur-Rehman**. **2021**. Application of plant growth promoters on sugarcane (*Saccharum officinarum* L.) budchip under subtropical conditions. **Asian Journal of Agriculture and Biology**, DOI: 10.35495/ajab.2020.03.202
- Abdul Rehman, Rafi Qamar, Muhammad E. Safdara, **Atique-ur-Rehman**, Hafiz M.R. Javeed, Rizwan Maqbool, Naila Farooq, Muhammad Shahzad, Mazhar Ali, Zahid H. Tarar. **2020**. Critical competition period of

	<p><i>Parthenium hysterophorus</i> L. in spring maize (<i>Zea mays</i> L.). Planta Daninha. 38: e020214143. https://doi.org/10.1590/S0100-83582020380100085 (IF 0.62).</p> <p>Atique-ur-Rehman, Rafi Qamar, Abdul Rehman, Allah Wasaya, Omer Farooq, Naeem Sarwar, Muhammad Mazhar Iqbal, Shakeel Ahmad. 2020.^[1] Silicon Coating On Maize Seed Mitigates Saline Stress In Yermosols Of Southern Punjab. Silicon https://doi.org/10.1007/s12633-020-00737-2 (IF 1.499).</p> <p>Muhammad Mohsin Altaf, Xiao-ping Diao, Atique ur Rehman, Muhammad Imtiaz, Awais Shakoor, Muhammad Ahsan Altaf, Haseeb Younis, Pengcheng Fu, Muhammad Usman Ghani. 2020. Effect of Vanadium on Growth, Photosynthesis, Reactive Oxygen Species, Antioxidant Enzymes, and Cell Death of Rice. Journal of Soil Science and Plant Nutrition. 20(4): 2643-2656 https://doi.org/10.1007/s42729-020-00330-x (IF 2.156).</p>
Patents	<p>i- Sugarcane Bud Chip Machine^[1](National)</p> <p>ii- Sugarcane Budchip/Budnode Combined Planter (National)</p> <p>iii- Sugarcane harvester (National) submitted</p>
Conferences /Training Participated (18)	<ol style="list-style-type: none"> 1. National training on “The role of Isotopic and related techniques in measuring green house gas emission from agriculture and identifying their sources” held at PMAS Arid Agriculture University, Rawalpindi, Pakistan. 2. “2018 International Training Workshop on Hybrid Rice Technology” on Sep 06 to Sep 26, 2018 at Hunan Rice Research Institute, Changsha China. 3. Hands on Training Workshop on “Soil, Water and Plant Analysis” at Nuclear Institute for Agriculture and Biology, Faisalabad on September 06- 09, 2016. 4. Hands on Training Workshop on “Agricultural Production Systems Simulator (APSIM) Modeling” at University of Agriculture, Faisalabad on August 30- September 01, 2016. 5. International Hands-on Training on “Agricultural Production Systems Simulator (APSIM) Modeling (DFAT-CSIRO INDUS PAKISTAN PROJECT)” at Department of Agronomy, University of Agriculture, Faisalabad on 17-20th November, 2015. 6. “Extension and Communication Skills” at Bahauddin Zakariya University, Multan, on 29th August, 2015. 7. “National Workshop Sustainable Production of Pulses” at Bahadur Sub Campus, Layyah, Bahauddin Zakariya University, Multan, on 11th August, 2015. 8. Agro-Vet Conference 2015, at Khayyam Qilla, Faisalabad, on 31st May, 2015. 9. Irrigation Management Training Workshop held on 09-04-2014 at Bahauddin Zakariya University, Multan by Trade and Investment, Australia. Training covers irrigation management practices, soil-water principles, use and installation of tentimeters and soil pit profiling for irrigation. 10. “Alive Expo 2014 Conference on Food Security Challenges” at Agricultural College, Bahauddin Zakariya University, Multan on 31st March to 2nd April, 2014. 11. “2nd International Symposium on Integrative Plant Biology” at Lanzhao University, Lanzhao, China, on Aug 26-28, 2011.
Abstract in Conferences	<ol style="list-style-type: none"> 1. Qamar, R., Atique-ur-Rehman, A. Rehman, H.M.R. Javeed, M.E. Safdar, and A. Ali. 2019. Influence of Boron level on cotton under belt zone of Punjab, Pakistan. 6th international conference on “Sustainable agriculture in changing climate Strategies and management” at Rawalakot, Pakistan from 19-21 June 2019. 2. Hussain, A., Atique-ur-Rehman, M. Naeem, and R. Qamar. 2018. Seed priming with sorghum water extracts and calcium chloride improves the stand establishment and seedling growth of sunflower and maize. 1st International and 2nd National Conference on “Challenges and opportunities to boost agriculture in changing climate” at College of Agriculture, Bahadur Sub Campus, Bahauddin Zakariya Univeristy, Multan from 26-28 March, 2018. 3. Farooq, O. Q.M. Hussain, Atique-ur-Rehman, N. Sarwar, A. Wasaya, T.A. Yasir, A. Nawaz, M. Shiaz, and M. Sohaib. 2018. Seed priming with sorghum water extracts and calcium chloride improves the stand establishment and seedling growth of sunflower and maize. 1st International and 2nd National Conference on “Challenges and opportunities to boost agriculture in changing climate” at College of Agriculture, Bahadur Sub Campus, Bahauddin Zakariya Univeristy, Multan from 26-28 March, 2018. 4. Sarwar, N., M.H. Javaid, A. Neelum, Atique-ur-Rehman, U. Farooq, and F. Ali. 2018. Application of

- spermidine to manage water stress for improved fine rice yield and quality. 1st International and 2nd National Conference on “Challenges and opportunities to boost agriculture in changing climate” at College of Agriculture, Bahadur Sub Campus, Bahauddin Zakariya Univeristy, Multan from 26-28 March, 2018.
5. Ahmad, S., **Atique-ur-Rehman**, and M. Altaf. 2017. Improving performance of sunflower by exogenous application of salicylic acid in saline soil. National conference on “Challenges and opportunities to boost agriculture in changing climate” at College of Agriculture, Bahadur Sub Campus, Bahauddin Zakariya Univeristy, Multan from 29-30 March, 2017.
 6. **Rehman, A.** and M. Farooq. 2015. Nurturing rice with boron improves panicle fertility, yield and its grain enrichment. **Proceedings of International Workshop on Biofortification of Staple Crops: a solution to combat malnutrition.** Department of Agronomy, University of Agriculture, Faisalabad. March 29-31, 2015.
 7. Ahmad, R., G. Yasin, **A. Rehman** and I. Hussain. 2012. Effect of different sources and levels of phosphorus application on the production of spring maize. **National seminar on recent trends in agronomic strategies for further green revolution.** Department of Agronomy, Khyber Pakhtunkhwa Agricultural University, Peshawar, Pakistan. May 02-03, 2012.
 8. Ahmad, R., Y. Hussain, N. Akbar, **A. Rehman** and I. Hussain. 2012. Impact of plant spacing on growth and yield of two maize hybrids. **National seminar on recent trends in agronomic strategies for further green revolution.** Department of Agronomy, Khyber Pakhtunkhwa Agricultural University, Peshawar, Pakistan. May 02-03, 2012.
 9. Ahmad, R., S. Ali, A. Wahid, **A. Rehman** and I. Hussain. 2012. Improving the performance of fine rice grown at different planting patterns. **National seminar on recent trends in agronomic strategies for further green revolution.** Department of Agronomy, Khyber Pakhtunkhwa Agricultural University, Peshawar, Pakistan. May 02-03, 2012.
 10. Ahmad, R., M.K. Khan, Ehsanullah and **A. Rehman**. 2012. Bio-economic assessment of barley-methra intercropping grown at multi-row strips. **National seminar on recent trends in agronomic strategies for further green revolution.** Department of Agronomy, Khyber Pakhtunkhwa Agricultural University, Peshawar, Pakistan. May 02-03, 2012.
 11. **Rehman, A.**, M. Farooq, A. Wahid and T. Aziz. 2011. Seed priming with boron improves the germination and early seedling growth of rice (*Oryza sativa* L.). **International seminar on “Crop management: Issues and options”.** Department of Agronomy, University of Agriculture, Faisalabad-Pakistan. June 1-2, 2011.
 12. Nawaz, A., M. Farooq, **A. Rehman** and T. Aziz. 2011. Studying the resource use efficiency and productivity of wheat in conventional and conservation rice-based rice based cropping systems. **International seminar on “Crop management: Issues and options”.** Department of Agronomy, University of Agriculture, Faisalabad-Pakistan. June 1-2, 2011.
 13. Iqbal, S., M. Farooq, A. Nawaz, R. Munir and **A. Rehman**. 2011. Evaluating the role of seed priming with boron in improving wheat productivity. **International seminar on “Crop management: Issues and options”.** Department of Agronomy, University of Agriculture, Faisalabad-Pakistan. June 1-2, 2011.
 14. Habib M. Z., M. Farooq, T. Aziz and **A. Rehman**. 2009. Employing allelopathy to improve salinity tolerance in rice. **International conference on sustainable food grain production: challenges and opportunities.** Department of Agronomy, University of Agriculture, Faisalabad-Pakistan. November 24-25, 2009.
 15. **Rehman, A.**, M. Farooq and T. Aziz. 2009. Rice seed priming with boron improves the germination and early seedling growth. **International conference on sustainable food grain production: challenges and opportunities.** Department of Agronomy, University of Agriculture, Faisalabad-Pakistan. November 24-25, 2009.
 16. Ehsanullah, M.R. Mohsin, N. Akbar and **A. Rehman**. 2008. Effect of different planting patterns on the growth and yield of two varieties of sesame. **International conference on agriculture, food & animal sciences.** Sindh Agriculture University, Tandojam-Pakistan. May 12-14, 2008.

Popular Articles

- 1) Ahmad, M. and **A. Rehman**. 2008. Potassium application in field crops. *Money plus, The Daily Nation Lahore*. October 6, 2008.
- 2) **Rehman, A.** and R. Ahmad. 2008. Agriculture and Intercultural Dialogue. *The Post, Vista*. August 12-18.

- 3) **Rehman, A.** and E. Ullah. **2008.** Increasing yield of ratoon sugarcane. *The Daily Dawn Lahore*. April 7, 2008.
 - 4) Ahmad, M., K. Jabaran and **A. Rehman**. **2008.** Globalization and sustainable agriculture. *Money plus, The Daily Nation Lahore*. March 24, 2008.
 - 5) **Rehman, A.** and E. Ullah. **2008.** How to increase pulses output. *The Daily Dawn Lahore*. March 10, 2008.
 - 6) **Rehman, A.** and R. Ahmad. **2008.** Legumes cultivation for soil quality. *The Daily Dawn Lahore*. January 14, 2008.
 - 7) **Rehman, A.** and E. Ullah. **2007.** Barley: a rich source of vitamins and minerals. *The Daily Dawn Lahore*. December 17, 2007.
 - 8) **Rehman, A.,** M. Ahmad and E. Ullah. **2007.** Raised-bed planting for wheat crop. *The Daily Dawn Lahore*. November 26, 2007.
 - 9) Ahmad, M., F. Abbassi and **A. Rehman**. **2007.** Organic cotton cultivation in Pakistan. *Money plus, The Daily Nation Lahore*. October 29, 2007.
 - 10) **Rehman, A.,** E. Ullah and M. Ahmad **2007.** Growing castor for oil extraction. *The Daily Dawn Lahore*. October 17, 2007.
 - 11) Ahmad, M., R. Ahmad and **A. Rehman**. **2007.** Crowding stress tolerance in maize hybrids. *The Daily Dawn Lahore*. October 17, 2007.
 - 12) Ahmad, M., **A. Rehman** and R. Haouala. **2007.** Climate change and agriculture. *Money plus, The Daily Nation Lahore*. October 1, 2007.
 - 13) **Rehman, A.** **2007.** Zero tillage technology for rice and wheat crops. *The Daily Dawn Lahore*. September 24, 2007.
 - 14) Ahmad, M., **A. Rehman** and F. Abbassi. **2007.** Farming systems of Pakistan. *Money plus, The Daily Nation Lahore*. September 10, 2007.
 - 15) Ahmad, M., R. Ahmad and **A. Rehman**. **2007.** Potassium application in maize hybrids. *Money plus, The Daily Nation Lahore*. July 30, 2007.
 - 16) **Rehman, A.,** E. Ullah and R. Ahmad. **2007.** Integrated Nutrient Management Approach. *The Daily Dawn Lahore*. July 16, 2007.
 - 17) **Rehman, A.,** Ehsanullah and R. Ahmad **2007.** Intercropping technology to raise food production. *The Daily Dawn Lahore*. May 28, 2007.
 - 18) Javed, M.T., **A. Rehman** and E. Ullah. **2007.** Remedial plants: coping with polluted water. *The Daily Dawn Lahore*; April 23, 2007.
-
1. Ehsanullah and **A. Rehman**. 2010. Biotechnology and our agriculture...New trends. *Tri monthly Zarai Digest*, Jan.-March. 2010.
 2. Ahmad, M., R. Ahmad and **A. Rehman**. 2007. Effect of crowding stress on hybrid maize. *Tri monthly Zarai Digest*, Oct.-Dec. 2007.
 3. Ehsanullah and **A. Rehman**. 2007. Sugarcane ratoon crop. *Tri monthly Zarai Digest*, Oct.-Dec. 2007.
 - 4) Ahmad, M., R. Ahmad and **A. Rehman**. 2007. Role of potassium fertilizers for better maize yield. *Tri monthly Zarai Digest*, June-Sep. 2007.

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