

Detailed Curriculum Vitae of Dr. Muhammad Sajid Aqeel Ahmad

Personal Details

Name (English) **Dr. Muhammad Sajid Aqeel Ahmad**
Name (Urdu) **محمد ساجد عقیل احمد**
Father's Name Mubarak Ali
Date of Birth 7th October, 1980
Nationality Pakistani
CNIC No 38405-2278115-7
Gender Male
Mother Tongue Urdu
Languages Known (Read & Write) English (Excellent), Urdu (Excellent), Punjabi (Mother Tongue), Arabic (Satisfactory)



Subject: **Botany**
Field of specialisation: **Plant Ecophysiology**

Contact and Mailing Addresses:

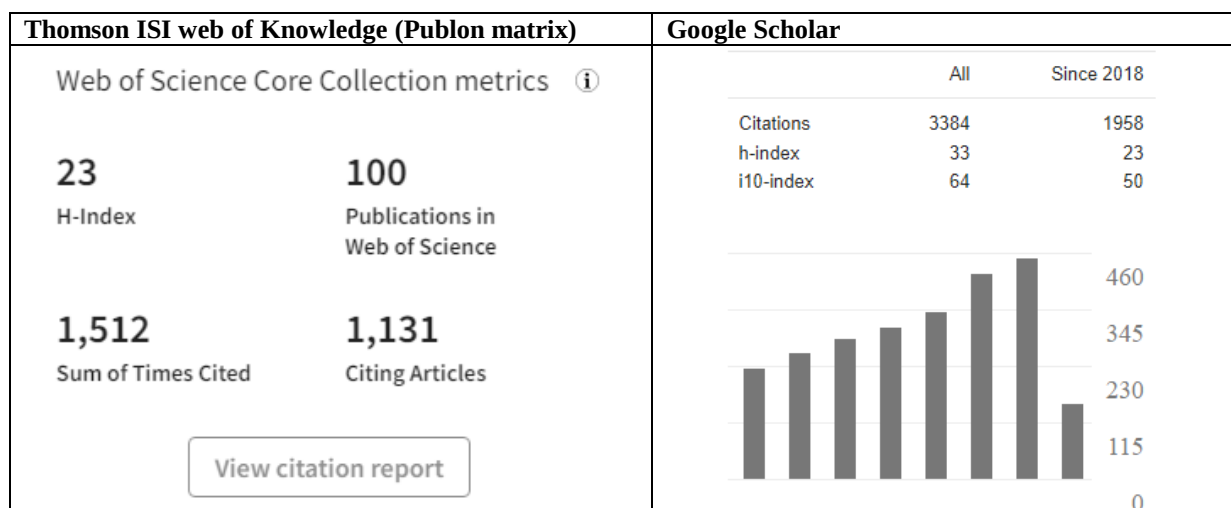
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HEC Approved Supervisor Profile Approved
Thomson Reuters – Research's ID [E-3374-2010](#)
Scopus – Author Identifier [18036787200](#)
Google Scholar – My Citations [Sfr717EAAAAJ](#)
ORCID [0000-0002-7310-2898](#)

Academic Qualifications:

Examination passed	Board/ University	Year	Division	Marks / CGPA	Subjects
Matriculation	Board of Intermediate and Secondary Education, Sargodha, Pakistan	1995	First	691/850	Science subjects
F.Sc.	Board of Intermediate and Secondary Education, Faisalabad, Pakistan	1997	First	669/1100	Biology group
B.Sc.	University of the Punjab, Lahore, Pakistan	1999	Second	413/800	Biology group
M.Sc.	University of Agriculture, Faisalabad, Pakistan	2001	First	3.53/4.00	Botany- Env. Biology
M.Phil.	University of Agriculture, Faisalabad, Pakistan	2004	First	3.83/4.00	Plant Cell and Tissue Culture
Ph.D.	University of Agriculture, Faisalabad, Pakistan	2011	First	3.94/4.00	Botany-Env. Biology

Citation Matrixes (Updated 19th April, 2023)



Theses Titles:

1. Effect of fungicides on nodulation and nitrogen fixation in pea (*Pisum sativum* L.). Department of Botany, University of Agriculture, Faisalabad (**M. Sc. Thesis, 2001; Supervised by: Dr. Farrukh Javed; Associate Professor, Department of Botany, University of Agriculture, Faisalabad**)
2. Growth and physiological responses to salinity and drought in rice callus, Department of Botany, University of Agriculture, Faisalabad (**M. Phil. Thesis, 2004; Supervised by: Dr. Farrukh Javed; Associate Professor, Department of Botany, University of Agriculture, Faisalabad**)
3. Influence of nickel stress on growth, morpho-physiological and anatomical attributes of sunflower (*Helianthus annuus* L.). Department of Botany, University of Agriculture, Faisalabad. (**Ph.D. Thesis, 2011; Supervised by: Dr. Mumtaz Hussain; Professor, Department of Botany, University of Agriculture, Faisalabad**)

Teaching and Research Experience:

1. Lecturer in Botany (Contract), University of Agriculture, Faisalabad. (01-07-2004 to 04-03-2008)
2. Lecturer in Botany (Permanent), University of Agriculture, Faisalabad. (05-03-2008 to 12-10-2009)
3. Assistant Professor in Botany (Permanent), University of Agriculture, Faisalabad. (13-10-2009 to 30-05-2024)
4. Associate Professor in Botany (Permanent), University of Agriculture, Faisalabad. (31-05-2024 to date)
- 5.

Organization of Laboratory Facilities:

1. **In charge, Plant Physiology-II Laboratory** since 2004-2008
2. **In charge, Plant Ecology/Environmental Biology Laboratory** since 2008 to date
3. **In charge AAS, Atomic Absorption Spectrophotometer Laboratory** since 2015 to date

Foreign Visits

Country	From	To	Purpose
Saudi Arabia	30.12.2019	12.01.2020	Perform Umrah

Postgraduate Courses Offered

Courses offered in Past

1. Bio-101	Essentials of Biology	3(2-1)	Undergraduate	(2 years)
2. Bio-302	Basic Biology-II	3(2-1)	Undergraduate	(3 years)
3. Bio-303	Fundamental Cellular Biology	4(3-1)	Undergraduate	(3 years)
4. Bot-302	Plant Systematic, Anatomy & Embryology	3(2-1)	Undergraduate	(2 years)
5. Bot-101	Botany-I	4(3-1)	Undergraduate	(3 years)
6. Bot-102	Botany-II	4(3-1)	Undergraduate	(3 years)
7. Bot-201	Botany-III	4(3-1)	Undergraduate	(3 years)
8. Bot-401	Essentials of Botany	3(2-1)	Undergraduate	(2 years)
9. Bot-403	Cell Biology, Genetic & Evolution	4(3-1)	Undergraduate	(2 years)
10. Bot-405	Biodiversity and Conservation	4(3-1)	Undergraduate	(2 years)
11. Bot-502	Advanced Botany	4(3-1)	Undergraduate	(4 years)
12. Bot-602	Plant Secondary Metabolism	3(2-1)	Undergraduate	
13. Bot-603	Plant Ecology	4(3-1)	Postgraduate	(15 years)
14. Bot-609	Environmental Biology of Plants	3(2-1)	Postgraduate	(15 years)
15. Bot-610	Advanced Botanical Techniques	3(2-1)	Postgraduate	(6 years)
16. Bot-621	Research Report	3(3-0)	Postgraduate	(4 years)
17. Bot-704	Radiations and Molecular Biology	3(2-1)	Postgraduate	
18. Bot-706	Forensic Botany	3(2-1)	Postgraduate	(6 years)
19. Bot-706-A	Plant and Cell Physiology-I	4(3-1)	Postgraduate	(1 year)
20. Bot-706-B	Plant and Cell Physiology-II	4(3-1)	Postgraduate	(1 year)
21. Bot-707	Plant Water Relations	4(3-1)	Postgraduate	(4 years)
22. Bot-713	Radiations and Molecular Biology	4(3-1)	Postgraduate	(4 years)
23. Bot-723	Physiological Plant Histology	3(3-0)	Postgraduate	(1 year)

Presently Offering Courses

1. Bot-512	Autecology	3(2-1)	Undergraduate	
2. Bot-603	Synecology	3(2-1)	Undergraduate	
3. Bot-606	Environmental Biology of Plants	3(2-1)	Undergraduate	
4. Bot-610	Botanical Techniques	3(2-1)	Undergraduate	
5. Bot-701	Water relations of Plants	3(2-1)	Postgraduate	
6. Bot-707	Evolutionary Biology	3(2-1)	Postgraduate	
7. Bot-708	Plant Functional Histology	3(2-1)	Postgraduate	
8. Bot-719	Special Problem	1(1-0)	Postgraduate	
9. Bot-720	Seminar	1(1-0)	Postgraduate	

Conferences/Symposia/Workshops Organized:

1. **International Symposium on “Strategies for Crop Improvement against Abiotic Stresses (SCIAS-2006)”** held on 18-20 September, 2006 by the Department of Botany, University of Agriculture Faisalabad. [**Organized (Convener, Technical, Advertisement and Publication Committees)**]
2. **“1st International conference of plant Scientists”** held on 21-23 April, 2008 by the Department of Botany, University of Agriculture Faisalabad. [**Organized (Convener, Technical, Advertisement and Publication Committees)**]
3. **“Agro-biodiversity: Threats and Solutions”** held on June 14 - 16, 2010 by the Department of Botany, University of Agriculture Faisalabad. [**Organized (Member, Technical, Advertisement and Publication Committees)**]
4. Workshop on **“Linking Biodiversity Preservation and Food Security”** held on February 17, 2011 by Department of Botany, University of Agriculture Faisalabad. [**Organized (Member, Technical, Advertisement and Publication Committees)**]

5. **International Symposium on “Strategies for Conservation of Endangered Ecosystems (ICPS-2012)”** held on 16-18 April, 2012 by the Department of Botany, University of Agriculture Faisalabad. **(Co-organizer)**
6. **International Workshop on “Ensuring Food Security thorough Preventing Biodiversity Loss”** held on 18-20 April, 2012 by the COMSTECH – Islamabad **(Co-organizer)**.
7. **Organized a poster competition** (member poster/model competition committee) at the occasion of 15 years of HEC establishment.

Conferences/Workshops Attended:

1. **33rd All Pakistan Science Conference** held at University of Agriculture, Faisalabad, from 25-28 December, 2002. **(Participated)**
2. **Higher Education Commission (HEC) Workshop:** on “Imparting Practical Training in Advanced Plant Biology Techniques to College Teachers” held on 11-16 October, 2004 by the Department of Botany, University of Agriculture Faisalabad. **(Participated)**
3. **3rd Workshop on Production Technology for Wheat and Sugarcane Crop Improvement** Organized by Agricultural Biotechnology Research Institute, Ayub Agricultural Research Institute Faisalabad on March 16, 2005. **(Participated)**
4. **International Training Workshop on Biosaline Agriculture Technology** held at Nuclear Institute for Agriculture and Biology on February 06-17, 2006. **(Participated)**
5. **International Symposium on “Applications of Plant Sciences in Emerging Scenario”** held at GC University Faisalabad from 20 to 22 March 2006. **(Participated)**
6. **Higher Education Commission (HEC) Workshop:** on “Role and Functions of Quality Enhancement Cell” held on May 31, 2006 by the Quality Enhancement Cell, University of Agriculture Faisalabad. **(Participated)**
7. **Higher Education Commission (HEC) Workshop:** on “Advances in Plant Physiology” held on 14-16 November, 2005 by the Department of Botany, University of Agriculture Faisalabad. **(Participated)**
8. **Higher Education Commission (HEC) Workshop:** on “Imparting Practical Training in Biochemical Techniques” held on Feb 27-March 4, 2006 by the Departments of Chemistry and Botany, University of Agriculture Faisalabad. **(Participated)**.
9. **Higher Education Commission (HEC) Workshop:** on “Advances in Plant Ecology: Ecophysiological Constraints of Plants” Held on December 17 to 19, 2007 by the Departments of Chemistry and Botany, University of Agriculture Faisalabad. **(Participated)**
10. **Higher Education Commission (HEC) Workshop:** on “**Entrepreneurship: an emerging discipline**” held on 21st April, 2007 funded by Higher Education Commission, Islamabad at the University of Agriculture, Faisalabad. **(Participated)**
11. **“2nd International conference of plant Scientists” (11th National Meeting of Plant Scientists)** held on February 22-24, 2011, by the Department of Biotechnology, GC University Lahore. **(Participated)**
12. International workshop on “**Medicinal Plants: Conservation and Sustainable Use**” organized by Quaid-i-Azam University, Islamabad 8-10th Dec 2011. **(Participated)**
13. **“12th National and 3rd International Conference of Botany”** held on 1st – 3rd September 2012 at Quaid-i-Azam University, Islamabad, Pakistan
14. **International Workshop on “High Altitude Ecosystems and Climate Change”** held on September 3-5, 2012” by the COMSTECH – Islamabad **(Participated)**.

15. **Project Formulation Workshop** at University of Agriculture, Faisalabad held on December 3-4, 2013” by the Pakistan Science Foundation – Islamabad **(Participated)**.
16. **International seminar on “Forensic botany”** arranged by the Department of Botany, University of Agriculture Faisalabad held on May, 30, 2015 (Delivered by Thomas L. Rost (Professor Emeritus) University of California, Davis, USA.) **(Participated)**
17. **International Conference on Major Environmental Constraints to Plants: Assessment and Reclamations** Organized by GC University, Faisalabad on 28th-30th March 2016 **(Participated)**
18. **International seminar on “Pierce’s Disease in Grapes”** arranged by the Department of Botany, University of Agriculture Faisalabad held on April, 02, 2016 (Delivered by Thomas L. Rost (Professor Emeritus) University of California, Davis, USA.) **(Participated)**
19. **International Seminar on “Establishment of Vegetable Garden with Organic Fertilizers”** Organized by GC University, Faisalabad on 13th March 2017 **(Participated)**
20. **International Conference on “Current Scenario of Research in Plant Science: Challenges and Opportunities”** held on 09-11 May, 2018 by Department of Botany, University of Sargodha, Sargodha. **(Chaired a Session)**
21. **One-day seminar on “Ethno-botany of Traditional Medicinal Plants”** held on 21 March, 2018 at Government Post-Graduate College, Samanabad, Faisalabad **(Participated)**.
22. **2nd International Conference on Water Saving and Plant Production Strategies: Constraints and Implications for Sustainable Agriculture** Organized by GC University, Faisalabad on 26th-28th March 2019 **(Co-Chair a session on Environmental Toxicology and Safety)**
23. **An "Awareness Seminar on Corona Virus"** delivered by **Prof. Dr. Sajjad-ur-Rahman** on 4th March, 2020 at University of Agriculture, Faisalabad **(Participated)**
24. **International Conference on “Smart Plantation: An ultimate solution to the climate change”** held on 2- 4 March, 2020 by Department of Botany, Government College for Women University, Lahore. **(Participated)**
25. International Online Conference entitled **“Dynamic Strategies in Plant Sciences for Crop Sustainability and Food Security”** 26-27 May, 2021. Department of Botany Government College Women University, Faisalabad, Pakistan **(Chaired a session)**.
26. International Symposium on **“Network Analysis in Agricultural Systems to address Grand Challenges to Food Security”** held on June 15 to 17, 2022, organized by CAS, AFS, University of Agriculture, Faisalabad **(Participated)**.
27. **International Conference on “Multidisciplinary Research”** held on 1- 3 November, 2022 by Department of Chemistry, University of Jhang, Jhang, Pakistan. **(Chaired a session)**
28. **International conference on "Capitalizing Plant Diversity for Ensuring Food Security".** The 9th International and 18th National Conference of Plant Scientists (INCPS-2024) held from October 28–30, 2024 at the Institute of Botany, Bahauddin Zakariya University in Multan, Pakistan.
29. **One-day “Museum Workshop”** for Food and Agriculture Museum Project held on 18th December at CAS Auditorium, University of Agriculture, Faisalabad

Resource Person for Lectures/Seminars/Talks

1. Delivered a lecture on **“Hydroponics in Vegetable Farming”** in a training workshop on “Techniques in Olericulture” held on 19-20 April, 2017 at GC Women University, Faisalabad.
2. Delivered a keynote lecture on **“Canopy Optical Spectra: Measurement & Ecological Implication”** in the 1st International Conference on “Current Scenario of Research in Plant Science: Challenges and Opportunities” held on 09-11 May, 2018 by Department of Botany, University of Sargodha, Sargodha.

- Delivered a lecture on “**Forests: Types, Importance and Sustainable Management**” Organized by “Green and Clean Pakistan”, at the event of “International Forest Day” on 21 March, 2019 at Government Post-Graduate College, Samanabad, Faisalabad.

Co-curricular/Outreach activities/Community services

- Tutor of Waris Shah-3 since 22 May, 2014 to date
- Co-Tutor of Warid Shah-3 Since 12 April 2008 to 22 May, 2014
- Participated in “**Tree Plantation Day**” activity Organized by Pakistan Motorway and Highway Police on 19-20 April, 2018 at National Highways & Motorway Police Training College, Sheikhpura.
- Participated in “**5th Green Day Celebrations**” activity Organized by “Green and Clean Pakistan”, on 21 March, 2018 at Government Post-Graduate College, Samanabad, Faisalabad.
- Participated in “**6th Green Day Celebrations**” activity Organized by “Green and Clean Pakistan”, on 21-22 March, 2019 at Government Post-Graduate College, Samanabad, Faisalabad.
- External Examiner of MPhil Thesis at various Universities (GCUF, GCWF, UoS, UoG)

Awards:

- Earned **Productivity Award** from the Ministry of Science & Technology in **G-Category** (2010)
- Earned **Productivity Award** from the Ministry of Science & Technology in **F-Category** (2011)
- Earned **Productivity Award** from the Ministry of Science & Technology in **E-Category** (2012)
- Earned **Productivity Award** from the Ministry of Science & Technology in **D-Category** (2013)

Honours:

- Won HEC merit scholarship to partially fund MPhil studies during 2001-2004.
- Total Thomson-ISI Author Impact Factor
 - JCR (Current year, 2023) ~235
 - JCR (Relevant year) ~166
- Author Citations Report (ACR) SCI 1512 up to **20th April, 2023**
- ISI web of Knowledge H-index = 23
- Higher Education Commission (HEC) approved supervisor** to act as Research Supervisor of Ph.D. scholars, under indigenous Ph.D. program
- Included in the list of Productive Scientists of Pakistan from 2008 and onward; **Scientist ID, 301**

Shields of Honour:

- Received a shield of honour at the event of “**1st International conference of plant Scientists**” held on 21-23 April, 2008 by the Department of Botany, University of Agriculture Faisalabad.
- Received a shield of honour at the event of “**International Symposium on “Strategies for Conservation of Endangered Ecosystems (ICPS-2012)”**” held on 16-18 April, 2012 by the Department of Botany, University of Agriculture Faisalabad.
- Received a shield at in a training workshop on “Techniques in Olericulture” held on 19-20 April, 2017 at GC Women University, Faisalabad.
- Received a shield at the event of **1st International Conference on “Current Scenario of Research in Plant Science: Challenges and Opportunities”** held on 09-11 May, 2018 by Department of Botany, University of Sargodha, Sargodha.

5. Received a shield at the event of **2nd International Conference on Water Saving and Plant Production Strategies: Constraints and Implications for Sustainable Agriculture** Organized by GC University, Faisalabad on 26th-28th March 2019
6. Received a shield at the event of **International Conference on “Smart Plantation: An ultimate solution to the climate change”** held on 2- 4 March, 2020 by Department of Botany, Government College for Women University, Lahore.

Reviewer of National and International Journals:

1. Acta Ecologica Sinica (China)
2. African Journal of Ecology (Kenya)
3. African Journal of Pharmacy and Pharmacology (Kenya)
4. CLEAN - Soil, Air, Water (Germany)
5. Crop Science (United States)
6. Environmental Science and Pollution Research (Germany)
7. International Journal of Agriculture and Biology (Pakistan)
8. Pakistan Journal of Agricultural Sciences (Pakistan)
9. Pakistan Journal of Botany (Pakistan)
10. Pakistan Journal of Life and Social Sciences (Pakistan)
11. Qatar National Foundation (Qatar)
12. Soil and Environment (Pakistan)

Member/Convener of Committees:

1. **Secretary**, Board of Studies, Department of Botany, University of Agriculture, Faisalabad (From 19.06.2008 to date)
2. **Member**, Board of Faculty, Faculty of Sciences, UAF (From April 2009 to July, 2013).
3. **Member**, Committee for “Digitization and Archiving of Hard Record of Students Available with Controller of Examinations Office” (2016-continued)
4. **Member**, Board of Faculty, Faculty of Sciences, UAF (From January 2017 to Dec, 2019).
5. **Deans Nominee**, for the Technical Report submitted by M.Sc. Botany Students for the year 2017 to 2020.
6. **Coordinator**, BS program in Botany from Department of Botany, University of Agriculture, Faisalabad (2019 to 2024)
7. **Joint Secretary**, Academic Staff Association (ASA), University of Agriculture, Faisalabad (15.01.2019 to 31.12.2021)
8. **Member**, sub-committee, HEC Ethical Appeal Review Board (EARB)/Grievance Redressal Committee (GRC) (19.01.2022 to date)
9. Departmental representative (Botany), for establishment of Food and Agriculture Museum Project, University of Agriculture, Faisalabad
- 10.

Membership of Societies:

1. **Life Member**, Pakistan Botanical Society (2006-todate)
2. **Joint Secretary**, Pakistan Botanical Society (2008-11 and 2012-14)
3. **Executive Secretary**, Society of Eminent Biological Scientists (January 2021- to date)

Poster Presentations:

1. **Ahmad M. S. A.**, Alvi A. K., Javed F. 2006. Does rice genotypes behave differentially towards iso-osmotic stress generated by NaCl and PEG. In: “Strategies for Crop Improvement against Abiotic Stresses (SCIAS-2006)” held on 18-20 September, 2006 by the Department of Botany, University of Agriculture Faisalabad. [Abstract No. SCIAS 124] p: 39.

2. Ali Q., **Ahmad M. S. A.**, Ashraf M. 2006. Alleviation of salt stress by exogenous application of 24-epibrassinolide in wheat (*Triticum aestivum* L.). In: "Strategies for Crop Improvement against Abiotic Stresses (SCIAS-2006)" held on 18-20 September, 2006 by the Department of Botany, University of Agriculture Faisalabad. [Abstract No. SCIAS 109] p: 32.
3. Bashir R., **Ahmad M. S. A.**, Ali Q. 2006. Time-course changes in growth and ionic distribution in two barley (*Hordium vulgare* L.) cultivars at early growth stages. . In: "Strategies for Crop Improvement against Abiotic Stresses (SCIAS-2006)" held on 18-20 September, 2006 by the Department of Botany, University of Agriculture Faisalabad. [Abstract No. SCIAS 182] P: 65
4. Bibi, S., **Ahmad, M. S. A.**, Fatima S., Hameed M., Li, Y., 2017. Soil-plant relationship in some desert grasses relative to varying soil depth. At a poster completion held on 15th September, 2017 at completion of 15 years of HEC.
5. Shaheen, A., Hameed, M., Ahmad F., **Ahmad, M.S.A.**, Shafaqat, J. 2024. Plant Diversity in Cholistan Desert and its economic significance. In: International Conference on Biodiversity and Biosafety (Abstract Book). Held on May 27-29, 2024 at University of Agriculture, Faisalabad (**Presented a poster**).
6. Hamza, M., **Ahmad, M.S.A.**, Rani, W., Awais, M., Naz, T. 2024. Distribution and Eco-physiological role of *Tecomella undulata* in Salt range of Pakistan. In: International Conference on Biodiversity and Biosafety (Abstract Book). Held on May 27-29, 2024 at University of Agriculture, Faisalabad (**Presented a poster**).
7. Shafaqat, J., Ahmad, F., **Ahmad, M.S.A.** 2024. Diversity, ethnobotanical uses and conservation status of grasses in Photohar region, Pakistan. In: International Conference on Biodiversity and Biosafety (Abstract Book). Held on May 27-29, 2024 at University of Agriculture, Faisalabad (**Presented a poster**).
8. Hamza, M., **Ahmad, M.S.A.**, Rani, W., Awais, M., Jameel, A. 2024. Food Safety: From Farm to Table: Current Status and Future Directions. At the event of "World Food Safety Day 2024" held at University of Agriculture, Faisalabad (**Presented a poster**).
1. "Prepare for the unexpected"

Theses Titles of Ph.D. Students

Produced as a major supervisor

S. No.	Student's name	Year of degree award	Thesis title
1.	Alia Riffat 2007-ag-131	2016	The response of maize (<i>Zea mays</i> L.) to exogenously applied sulfur under saline conditions
2.	Safura Bibi 2010-ag-859	2020	Soil-plant relationship in some desert grasses relative to varying soil depths
3.	Ali Kamal 1999-ag-686	2020	Soil-plant relationship in some desert grasses along salinity gradients
4.	Zunaira Naeem 2015-ag-2	2017	Adaptive traits in <i>Datura stramonium</i> L. and <i>Justicia adhatoda</i> L. for success against environmental heterogeneity
5.	Farhat Naaz 2014-ag-2473	2019	Thesis Submitted
6.	Tahira Nawaz 2008-ag-615	2018	Thesis Submitted

In Progress as a Major Supervisor

S. No.	Student's name	Enrollment Year	Thesis title
1.	Sadia Faryad 2015-ag-3	2017	Thesis Submitted
2.	Muhammad Shakeel	2021	Research work started

	2017-ag-378		
3.	Shabi-Ul-Fatima 2016-ag-1265	2021	Research work started
4.	Tabinda Naz 2017-ag-2826	2021	Research work started
5.	Muhammad Awais 2015-ag-3070	2021	Research work started
6.	Muhammad Hamza 2018-ag-511	2022	Research work started
7.	Muhammad Ikram	2022	Research work started
8.			

Research Students Supervised:

	Role	Supervised and Awarded Degree	In Progress	Total
<u>A: (MS/M.Sc.)</u>				
	Supervisor (With Thesis)	38	0	38
	Adviser (With Research Report)	97	0	97
	Member (With Thesis)	34	15	49
			Total (A):	184
<u>B: (M.Phil/ M.Sc. Hons)</u>				
	Supervisor:	170	22	192
	Member:	310	35	345
			Total (B):	537
<u>C. (Ph.D.)</u>				
	Supervisor:	4	9	13
	Member:	4	5	9
			Total (C):	22
Grand Total (A + B + C):				743

LIST OF PUBLICATIONS OF DR. MUHAMMAD SAJID AQEEL AHMAD

Special Issues (Editorship):

1. Ashraf M., **Ahmad M.S.A.** 2008. Guest Editors for a Special Issue of Pakistan Journal of Botany Volume 40(4) 2008. Published by the Pakistan Botanical Society.
2. Ashraf M., **Ahmad M.S.A.**, Hussain, M., Hameed M. 2012. Guest Editors for a Special Issue of Pakistan Journal of Botany Volume 44(SI2) 2012. Published by the Pakistan Botanical Society.

Books:

1. Ashraf M., Ozturk M., **Ahmad M.S.A.** 2010. "Plant Adaptation and Phytoremediation". 481 pages. ISBN: 978-90-481-9369-1. Springer, Germany
2. Ashraf M., Ozturk M., **Ahmad M.S.A.**, Aksoy, A. 2012. "Crop Production for Agricultural Improvement". 782 pages. ISBN: 978-94-007-4115-7. Springer, Germany
3. Öztürk, M., Ashraf, M., Aksoy, A., **Ahmad, M.S.A.** 2015. Phytoremediation for Green Energy. ISBN 978-94-007-7887-0. Springer, Germany.
4. Öztürk, M., Ashraf, M., Aksoy, A., **Ahmad, M.S.A.**, Hakeem, K.R. 2016. Plants, Pollutants and Remediation. ISBN 978-94-017-7193-1. Springer, Germany.
5. Öztürk, M., Hakeem, K.R., Ashraf, M., **Ahmad, M.S.A.**, 2018. Global Perspectives on Underutilized Crops. ISBN 978-3-319-77775-7. Springer, Germany.
6. Öztürk, M., Hakeem, K.R., Ashraf, M., **Ahmad, M.S.A.**, 2019. Crop Production Technologies for Sustainable Use and Conservation. ISBN 978-1-77188-726-7. Apple Academic Press (CRC Press), USA.

Book Chapters:

1. Ashraf, M., Ozturk, M., **Ahmad M.S.A.**, 2010. Toxins and Their Phytoremediation. In: "Plant Adaptation and Phytoremediation". Ashraf M., Ozturk M., Ahmad M.S.A. (Eds.). Springer, Germany. Pp. 1-34. DOI: [10.1007/978-90-481-9370-7_1](https://doi.org/10.1007/978-90-481-9370-7_1)
2. Hameed M., Ashraf M., **Ahmad M.S.A.**, Naz, N., 2010. Structural and Functional Adaptations in Plants for Salinity Tolerance. In: "Plant Adaptation and Phytoremediation". Ashraf M., Ozturk M., Ahmad M.S.A. (Eds.). Springer, Germany. Pp. 151-170. DOI: [10.1007/978-90-481-9370-7_8](https://doi.org/10.1007/978-90-481-9370-7_8)
3. Ashraf, M., **Ahmad, M.S.A.**, Öztürk, M. and Aksoy, A. 2012. Crop Improvement Through Different Means: Challenges and Prospects. In: *Crop Production for Agricultural Improvement*. Ashraf, M., Ozturk, M., Ahmad, M.S.A. and Aksoy, A. (Eds.), Springer, Germany. Pp. 1-15. DOI: [10.1007/978-94-007-4116-4_1](https://doi.org/10.1007/978-94-007-4116-4_1)
4. Batool, R., Hameed, M., Ashraf, M., **Ahmad, M.S.A.** Fatima, S. 2015. Physio-Anatomical Responses of Plants to Heavy Metals. In: "Phytoremediation for Green Energy". Öztürk, M., Ashraf, M., Aksoy, A., Ahmad, M.S.A. (Eds.) Springer, Germany DOI: [10.1007/978-94-007-7887-0_5](https://doi.org/10.1007/978-94-007-7887-0_5)
5. Ahmad, F., Hameed, M., **Ahmad, M.S.A.** 2018. Exploring Potential of Minor Underutilized Grasses for Remote Areas Facing Food Scarcity. In: "Global Perspectives on Underutilized Crops". Öztürk, M., Hakeem, K.R., Ashraf, M., Ahmad, M.S.A., (Eds.) Springer, Germany DOI: [10.1007/978-3-319-77776-4_7](https://doi.org/10.1007/978-3-319-77776-4_7)
6. Hameed, M., **Ahmad, M.S.A.**, Ashraf, M., Ozturk, M., Fatima, S. 2019. Plant Genetic Resources of Major and Minor Crops: Origin, Sustainable Use, and Conservation. In: "Öztürk, M., Hakeem, K.R., Ashraf, M., **Ahmad, M.S.A.**, 2019. Crop Production Technologies for Sustainable Use and Conservation. ISBN 978-1-77188-726-7. Apple Academic Press, USA, Pp: 1-44. DOI: [10.1201/9780429469763](https://doi.org/10.1201/9780429469763)
7. Ahmad, I., **Ahmad, M.S.A.**, Hussain, M., Hameed, M. 2019. Ethnobotanical Aspects of Some Traditional Medicinal Plants. In: Egamberdieva D., Tiezzi A. (eds) Medically Important Plant Biomes: Source of Secondary Metabolites. Microorganisms for Sustainability, vol 15. Springer, Singapore DOI: [10.1007/978-981-13-9566-6_1](https://doi.org/10.1007/978-981-13-9566-6_1)
8. Ahmad F., Hameed, M., **Ahmad, M.S.A.**, Ashraf, M. 2020. Ensuring food security of arid regions through sustainable cultivation of halophytes. In: Grigore MN, (Eds.) Handbook of Halophytes. From Molecules to Ecosystems towards Biosaline Agriculture. Springer, Cham. Pp: 1-20: DOI: [10.1007/978-3-030-17854-3_89-1](https://doi.org/10.1007/978-3-030-17854-3_89-1)

Abstracts in Abstract Books:

1. Shaheen, A., Hameed, M., Ahmad F., **Ahmad, M.S.A.**, Shafaqat, J. 2024. Plant Diversity in Cholistan Desert and its economic significance. In: International Conference on Biodiversity and Biosafety (Abstract Book). Held on May 27-29, 2024 at University of Agriculture, Faisalabad (**Presented a poster**).
2. Hamza, M., **Ahmad, M.S.A.**, Rani, W., Awais, M., Naz, T. 2024. Distribution and Eco-physiological role of *Tecomella undulata* in Salt range of Pakistan. In: International Conference on Biodiversity and Biosafety (Abstract Book). Held on May 27-29, 2024 at University of Agriculture, Faisalabad (**Presented a poster**).
3. Shafaqat, J., Ahmad, F., **Ahmad, M.S.A.** 2024. Diversity, ethnobotanical uses and conservation status of grasses in Photohar region, Pakistan. In: International Conference on Biodiversity and Biosafety (Abstract Book). Held on May 27-29, 2024 at University of Agriculture, Faisalabad (**Presented a poster**).

News/Popular articles:

4. Ashraf, M. and Ahmad, M.S.A. 2008. Bioethics - Governing the medicinal world, The News, **Saturday, January 12, 2008.**

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[Official Webpage: http://www.uaf.edu.pk/EmployeeDetail.aspx?userid=255](http://www.uaf.edu.pk/EmployeeDetail.aspx?userid=255)

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Total IF (2025) JCR	217.40	Total IF (YearJCR)	207.7
Publications with IF	117		
Publications without IF	24		
Total Publications	141		

Publications by Role

1st Author	15	2nd Author	41	3rd Author	18	4th Author	22	5th Author	19	Total =
6th Author	14	7th Author	6	8th Author	2	9th Author	0	10th Author	0	

Publications by Year

2006	4	2007	2	2008	4	2009	5	2010	6	Total =
2011	10	2012	11	2013	7	2014	4	2015	1	
2016	3	2017	2	2018	3	2019	3	2020	6	
2021	10	2022	25	2023	18	2024	14			

Publications by HEC Category

W	117	X	1	Y	8	Z	0	No Category	10
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Note: IF-C: Impact factor calculated for all current and past papers according to the current JCR (2025) as 217.4

Note: IF-Y: Impact factor calculated for papers according to the JCR applied for the year of publication as 207.732

No.	Authors	Title	Journal	Year	Vol	Iss	Page #	IF-C*	IF-Y**	DOI/Web link	HEC
1	Ahmad, M.S.A., Javed, F., Ashraf, M., Hafeez, F.Y.	Effect of fungicide seed treatments on N ₂ -fixation and nodulation in pea, <i>Pisum sativum</i> L.	Bulletin of Environmental Contamination and Toxicology	2006	77	-	896-904	2.700	0.626	https://doi.org/10.1007/s00128-006-1229-y	W

No.	Authors	Title	Journal	Year	Vol	Iss	Page #	IF-C*	IF-Y**	DOI/Web link	HEC
2	Hussain, M., Ahmad, M.S.A. , Kausar, A.	Effect of lead and chromium on growth, photosynthetic pigments and yield components in mash bean [<i>Vigna mungo</i> (L.) Hepper]	Pakistan Journal of Botany	2006	38	5	1389-1396	0.900	0.153	http://www.pakbs.org/pjbot/PDFs/38(5)/PJB38(5)1389.pdf	W
3	Khan, A., Ahmad, M.S.A. , Athar H.R., Ashraf, M.	Interactive effect of foliar applied ascorbic acid and salt stress on wheat (<i>Triticum aestivum</i> L.) at seedling stage	Pakistan Journal of Botany	2006	38	5	1407-1414	0.900	0.153	http://www.pakbs.org/pjbot/PDFs/38(5)/PJB38(5)1407.pdf	W
4	Ahmad, M.S.A. , Ali, Q., Bashir, R., Javed F., Alvi, A.K.	Time course changes in ionic composition and total soluble carbohydrates in two barley cultivars at seedling stage under salt stress	Pakistan Journal of Botany	2006	38	5	1457-1466	0.900	0.153	http://www.pakbs.org/pjbot/PDFs/38(5)/PJB38(5)1457.pdf	W
5	Ahmad, M.S.A. , Hussain, M., Saddiq, R., Alvi, A.K.	Mungbean: A nickel indicator, accumulator or excluder?	Bulletin of Environmental Contamination and	2007	78		319-324	2.700	0.505	https://doi.org/10.1007/s00128-007-9182-y	W
6	Ahmad, M.S.A. , Javed, F., Ashraf, M.	Iso-osmotic effect of NaCl and PEG on growth, cations and free proline accumulation in callus tissue of two indica rice (<i>Oryza sativa</i> L.) genotypes	Plant Growth Regulation	2007	53		53–63	3.500	2.107	https://doi.org/10.1007/s10725-007-9204-0	Y
7	Ahmad, M.S.A. , Hussain, M., Ijaz S., Alvi, A.K.	Photosynthetic performance of two mungbean (<i>Vigna radiata</i> (L.) Wilczek) cultivars under lead and copper application	International Journal of Agriculture and Biology	2008	10		167-176	0.000	0.000	http://www.fspublishers.org/published_papers/43523_.pdf	Y
8	Hameed, M., Naz, N., Ahmad, M.S.A. , Islam-ud-Din, Riaz, S.	Morphological adaptations of some grasses from the salt range, Pakistan	Pakistan Journal of Botany	2008	40	4	1751-1758	0.900	0.470	http://www.pakbs.org/pjbot/PDFs/40%284%29/PJB40%284%291571.pdf	W
9	Ahamad, I., Hussain, M., Ahmad, M.S.A. , Hameed, M.	Spatio-temporal effects on association of plant species in soone valley of Pakistan	Pakistan Journal of Botany	2008	40	4	1865-1876	0.900	0.470	http://www.pakbs.org/pjbot/PDFs/40(5)/06.pdf	W

No.	Authors	Title	Journal	Year	Vol	Iss	Page #	IF-C*	IF-Y**	DOI/Web link	HEC
10	Ahmad, I., Ahmad, M.S.A. , Hussain, M., Ashraf, M.Y., Ahmad, R., Ali, A.	Spatio-temporal variations in physiochemical attributes of <i>Adiantum capillus veneris</i> from Soone Valley of Salt Range (Pakistan)	Pakistan Journal of Botany	2008	40	4	1387-1398	0.900	0.470	http://www.pakbs.org/pjbot/PDFs/40(4)/05.pdf	W
11	Ahmad, M.S.A. , Ali, Q., Ashraf, M., Haider M.Z., Abbas, Q.	Involvement of PAs and ABA in adaptation of Blue Panicgrass (<i>Panicum antidotale</i> Retz.) to saline environments	Environmental and Experimental Botany	2009	66		409-417	4.500	2.301	https://doi.org/10.1016/j.envexpbot.2009.02.011	W
12	Ahmad, I., Ahmad, M.S.A. , Hussain, M., Hameed, M., Ashraf, M.Y., Koukab, S.	Spatio-temporal effects on species classification of medicinal plants in soone valley of Pakistan	International Journal of Agriculture and Biology	2009	11	1	64-68	0.000	0.000	https://www.fspublishers.org/Issue.php?no_download=published_papers/14330_.pdf&issue_id=1066	Y
13	Ahmad, M.S.A. , Javed, F., Javed S., Alvi, A.K.	Relationship between callus growth and mineral nutrients uptake in salt-stressed indica rice callus	Journal of Plant Nutrition	2009	32		382-394	1.600	0.569	https://doi.org/10.1080/01904160802660719	W
14	Ahmad, M.S.A. , Hussain, M., Ashraf, M., Ahmad R., Ashraf, M.Y.	Effect of nickel on seed germinability of some elite sunflower (<i>Helianthus annuus</i> L.) cultivars	Pakistan Journal of Botany	2009	41	4	1871-1882	0.900	0.470	http://www.pakbs.org/pjbot/PDFs/41(4)/40.pdf	W
15	Naz, N., Hameed, M., Wahid, A., Arshad, M., Ahmad, M.S.A.	Patterns of ion excretion and survival in two stoloniferous arid zone grasses	Physiologia Plantarum	2009	135		185-195	5.400	2.334	https://doi.org/10.1111/j.1399-3054.2008.01187.1	W
16	Naz, N., Hameed, M., Ahmad, M.S.A. Ashraf, M., Arshad, M.	Is soil salinity one of the major determinants of community structure under arid environments?	Community Ecology	2010	11	1	84-90	1.200	0.792	https://doi.org/10.1556/ComEc.11.2010.1.12	W
17	Ahmad, M.S.A. , Ashraf, M., Ali, Q.	Soil salinity as a selection pressure is a key determinant for the evolution of salt tolerance in Blue Panicgrass (<i>Panicum antidotale</i> Retz.)	Flora	2010	205		37-45	1.700	1.439	https://doi.org/10.1016/j.flora.2008.12.002	Nil
18	Nawaz, T., Hameed, M., Naz, N., Ahmad, M.S.A. , Chaudhry, A.A.	Impact of fencing on vegetation structure in Lehri and Jindi sub-mountainous open scrub forest	International Journal of Biology and Biotechnology	2010	7	3	227-233	0.000	0.000	https://ijbbku.com/assets/custom/journals/2010/3/IMPA	W

No.	Authors	Title	Journal	Year	Vol	Iss	Page #	IF-C*	IF-Y**	DOI/Web link	HEC
19	Habib, N., Ashraf M., Ahmad, M.S.A.	Enhancement in seed germinability of rice (<i>Oryza sativa</i> L.) by pre-sowing seed treatment with nitric oxide (NO) under salt stress	Pakistan Journal of Botany	2010	42	6	4071-4078	0.900	0.520	http://www.pakbs.org/pjbot/PDFs/42(6)/44.pdf	W
20	Naz, N., Hameed, M., Ashraf, M., Arshad M., Ahmad, M.S.A.	Impact of salinity on species association and phytosociology of halophytic plant communities in the Cholistan Desert, Pakistan	Pakistan Journal of Botany	2010	42	4	2359-2367	0.900	0.520	http://www.pakbs.org/pjbot/PDFs/42(4)/18.pdf	W
21	Ahmad, I ., Ahmad, M.S.A. , Hussain, M., Ashraf, M., Ashraf, M.Y., Hameed M.	Spatiotemporal aspects of plant community structure in open scrub rangelands of sub-mountainous Himalayan plateaus	Pakistan Journal of Botany	2010	42	5	3431-3440	0.900	0.520	http://www.pakbs.org/pjbot/PDFs/42(5)/10.pdf	W
22	Ahmad, M.S.A. , Ashraf, M., Tabassam, Q., Hussain, M. and Firdous, H.	Lead (pb) induced regulation in growth, photosynthesis, and mineral nutrition in maize (<i>Zea mays</i> L.) plants at early growth stages	Biological Trace Element Research	2011	144		1229–1239	3.400	1.523	https://doi.org/10.1007/s12011-011-9099-5	W
23	Ashraf, M.Y., Sadiq, R., Hussain, M., Ashraf M., Ahmad, M.S.A.	Toxic effect of nickel (Ni) on growth and metabolism in germinating seeds of sunflower (<i>Helianthus annuus</i> L.)	Biological Trace Element Research	2011	143		1695-1703	3.400	1.523	https://doi.org/10.1007/s12011-011-8955-7	W
24	Ashraf, M.A., Ahmad, M.S.A. , Ashraf, M., Ashraf, M.Y.	Alleviation of waterlogging stress in upland cotton (<i>Gossypium hirsutum</i> L.) by exogenous application of potassium in soil and as a foliar spray	Crop & Pasture Science	2011	62		25–38	1.800	1.248	https://doi.org/10.1071/CP09225	W
25	Ahmad, M.S.A. , Ashraf, M., Hussain, M.	Phytotoxic effects of nickel on yield and concentration of macro- and micro-nutrients in sunflower (<i>Helianthus annuus</i> L.) achenes	Journal of Hazardous Materials	2011	185		1295-1303	12.200	3.723	https://doi.org/10.1016/j.jhazmat.2010.10.045	W
26	Nawaz, T. Hameed, T., Ashraf, M., Al-Qurainy, F., Ahmad, M.S.A. , Younis A., and Hayat, M.	Ecological significance of diversity in leaf tissue architecture of some speciescultivars of the genus <i>Rosa</i> L.	Pakistan Journal of Botany	2011	43	2	873-887	0.900	0.947	http://www.pakbs.org/pjbot/PDFs/43(2)/17.pdf	W

No.	Authors	Title	Journal	Year	Vol	Iss	Page #	IF-C*	IF-Y**	DOI/Web link	HEC
27	Hameed, M., Khan, R., Ashraf, M., Nawaz, T., Ahmad M.S.A. , and Mubarik, S.	Influence of plantation type on ground flora composition and diversity in Gatwala artificial forest plantation	Pakistan Journal of Botany	2011	43	4	1867-1872	0.900	0.947	http://www.pakbs.org/pjbot/PDFs/43(4)/11.pdf	W
28	Hameed, M., Ashraf, M., Al-Quriany, F., Nawaz, T., Ahmad, M.S.A. , Younis A., Naz N.	Medicinal flora of the Cholistan desert - A review	Pakistan Journal of Botany	2011	43	SI	39-50	0.900	0.947	http://www.pakbs.org/pjbot/PDFs/43(SI)/07.pdf	W
29	Ahmad, I., Ahmad, M.S.A. , Ashraf, M., Hussain M., Ashraf, M.Y.	Seasonal variation in some medicinal and biochemical ingredients in a potential medicinal plants <i>Mentha</i>	Pakistan Journal of Botany	2011	43	SI	69-77	0.900	0.947	http://www.pakbs.org/pjbot/PDFs/43(SI)/10.pdf	W
30	Ahamad, I., Ahmad, M.S.A. , Hussain, M., Ashraf, M.Y.	Spatio-temporal variations in soil characteristics and nutrient availability of an open scrub type rangeland in the sub-mountainous Himalayan tract of	Pakistan Journal of Botany	2011	43	1	565-571	0.900	0.947	http://www.pakbs.org/pjbot/PDFs/43(1)/61.pdf	W
31	Ahmad, M.S.A. and Ashraf, M.	Essential roles and hazardous effects of nickel in plants	Reviews of Environmental Contamination and Toxicology	2011	214		125-167	6.100	2.935	https://doi.org/10.1007/978-1-4614-0668-6_6	W
32	Hameed, M., Naz., N., Ashraf, M., Ahmad, M.S.A. , Chaudhry, A.A., Nadeem, S., Niaz, B.,	Impact of fencing on the conservation of wildlife habitat in a tropical sub-mountainous evergreen open scrub	Acta Oecologica-International Journal of Ecology	2012	45		16-24	1.300	1.570	https://doi.org/10.1016/j.actao.2012.08.003	W
33	Nawaz, T., Hameed M., Waqar-U-Nisa, Ahmad, M.S.A. , Younis, A., and Kanwal, H.	Comparative anatomy of root and stem of some native and exotic <i>Asparagus</i> L. species	Pakistan Journal of Botany	2012	44	SI 1	153-158	0.900	0.836	http://www.pakbs.org/pjbot/PDFs/44(SI1)/22.pdf	W
34	Zahoor, I., Ahmad, M.S.A. , Hameed, M., Nawaz T., and Tarteel, A.	Comparative salinity tolerance of <i>Fimbristylis dichotoma</i> (L.) Vahl and <i>Schoenoplectus Juncooides</i> (Roxb.) Palla, the candidate sedges for	Pakistan Journal of Botany	2012	44	SI 1	1--6	0.900	0.836	http://www.pakbs.org/pjbot/PDFs/44(SI1)/01.pdf	W
35	Nawaz T., Hameed M., Ashraf M., Ahmad F., Ahmad M.S.A. , Hussain M., Ahmad I., Younis A., Ahmad, K.S.	Diversity and conservation status of economically important flora of the salt range, Pakistan	Pakistan Journal of Botany	2012	44	SI 2	203-212	0.900	0.836	https://www.pakbs.org/pjbot/PDFs/44(SI2)/28.pdf	W

No.	Authors	Title	Journal	Year	Vol	Iss	Page #	IF-C*	IF-Y**	DOI/Web link	HEC
36	Hameed, M. Nawaz T., Ashraf M., Ahmad F., Ahmad K.S., Ahmad M.S.A. , Raza S.H., Hussain M., Ahmad I.	Floral biodiversity and conservation status of the Himalayan foothill region, Punjab	Pakistan Journal of Botany	2012	44	SI 2	143-149	0.900	0.836	http://www.pakbs.org/pjbot/PDFs/44%28SI2%29/20.pdf	W
37	Gill A.H., Ahmad K.S., Habib S., M. Hameed, Ahmad M.S.A. , Nawaz T., Ashraf M.,	Impact of highly saline wetland ecosystem on floral diversity of the Cholistan desert	Pakistan Journal of Botany	2012	44	SI 2	107-112	0.900	0.836	https://www.pakbs.org/pjbot/PDFs/44(SI2)/15.pdf	W
38	Hameed, M., Nawaz, T., Ashraf, M., Tufail, A., Kanwal, H., Ahmad M.S.A. , Ahmad, I.	Leaf anatomical adaptations of some halophytic and xerophytic sedges of the Punjab	Pakistan Journal of Botany	2012	44	SI 1	159-164	0.900	0.836	http://www.pakbs.org/pjbot/PDFs/44(SI1)/23.pdf	W
39	Ahmad I., Ahmad M.S.A. , Hameed M., Hussain M., Ashraf M.Y., Ahmad F., Malik H.	Status of plants diversity in the Soone Valley, Salt Range, Pakistan	Pakistan Journal of Botany	2012	44	SI 2	59-62	0.900	0.836	https://www.pakbs.org/pjbot/PDFs/44(SI2)/08.pdf	W
40	Ashraf, M., Hussain M., Ahmad M.S.A. , Al-Qurainy F., Hameed M.	Strategies for conservation of endangered ecosystems	Pakistan Journal of Botany	2012	44	SI 2	1--6	0.900	0.836	https://www.pakbs.org/pjbot/PDFs/44(SI2)/01.pdf	W
41	Kanwal, H., Hameed, M., Nawaz, T., Ahmad, M.S.A. and Younis, A.	Structural adaptations for adaptability in some exotic and naturalized species of Agavaceae	Pakistan Journal of Botany	2012	44	SI 1	129-134	0.900	0.836	http://www.pakbs.org/pjbot/PDFs/44(SI1)/19.pdf	W
42	Hussain, M., Ahmad M.S.A. , Hameed M., Aqeel M., Sabeeh-ur-Rasool	Threats to rainfed and canal irrigated agro-ecosystems of the Punjab, Pakistan by weed infestation	Pakistan Journal of Botany	2012	44	SI 2	171-178	0.900	0.836	https://www.pakbs.org/pjbot/PDFs/44(SI2)/24.pdf	W
43	Naz, N., Hameed, M., Nawaz, T., Ahmad, M.S.A. , Ashraf., M.	Soil-plant relationships in the arid saline desert of cholistan	Arid Land Research and Management	2013	27		140–152	1.900	0.420	https://doi.org/10.1080/15324982.2012.719576	W
44	Bharwana, S.A., Ali, S., Farooq, M.A., Abbas, F., Iqbal, M.N., Ahmad, M.S.A. , Shakoor M.P.	Influence of lead stress on growth, photosynthesis and lead uptake in the seedlings of cotton	International Journal of Agronomy and Plant Production	2013	4	10	2492-2501	0.000	0.000	https://www.semanticscholar.org/paper/Influence-of-lead-stress-on	Y
45	Bharwana SA, Ali S, Farooq MA, Iqbal N, Abbas F, Ahmad MSA	Alleviation of lead toxicity by silicon is related to elevated photosynthesis, antioxidant enzymes suppressed lead	Journal of Bioremediation & Biodegradation	2013	4		187-198	0.000	0.000	https://doi.org/10.4172/2155-6199.1000187	W

No.	Authors	Title	Journal	Year	Vol	Iss	Page #	IF-C*	IF-Y**	DOI/Web link	HEC
46	Ahmad, M.S.A. , Hussain, M., Alvi, A.K., Kausar, A.	Potassium and calcium nutrition in mash bean under Pb and Cr stress	Journal of Plant Nutrition	2013	36		1315–1326	1.600	0.526	https://doi.org/10.1080/01904167.2013.790425	W
47	Hameed, M., Ashraf, M., Naz, M., Nawaz, T., Batool, R., Ahmad, M.S.A. , Ahmad, F., and Hussain, M.	Anatomical adaptations of <i>Cynodon dactylon</i> (L.) pers. from the salt range (Pakistan) to salinity stress. II. leaf anatomy	Pakistan Journal of Botany	2013	45	SI 1	133-142	0.900	0.872	http://www.pakbs.org/pjbot/PDFs/45(SI)/19.pdf	W
48	Ahmad, I., Hussain, M., Ahmad, M.S.A. , Hameed, M., Ashraf, M.Y., Shinwari, Z.K., Nawaz, T., Batool R., and	Spatio-temporal variations in some medicinally important biochemical constituents of <i>Peganum harmala</i> (Hermal)	Pakistan Journal of Botany	2013	45	SI 1	601-607	0.900	0.872	http://www.pakbs.org/pjbot/PDFs/45(SI)/80.pdf	W
49	Hameed, M., Nawaz, T., Ashraf, M., Naza, N., Batool, R., Ahmad, M.S.A. , Riaz, A.	Physio-anatomical adaptations in response to salt stress in <i>Sporobolus arabicus</i> Boiss. from the Salt Range, Pakistan	Turkish Journal of Botany	2013	37		715-724	1.500	1.600	https://doi.org/10.3906/bot-1208-1906	W
50	Nawaz, T., Hameed, M., Ashraf, M., Ahmad, M.S.A. , Batool, R., Fatima, S.	Anatomical and physiological adaptations in aquatic ecotypes of <i>Cyperus alopecuroides</i> Rottb. under	Aquatic Botany	2014	116		60–68	1.900	1.471	https://doi.org/10.1016/j.aquabot.2014.01.001	W
51	Bharwana S.A., Ali S., Farooq M.A., Ali B., Iqbal N., Abbas F., Ahmad M.S.A.	Hydrogen sulfide ameliorates lead-induced morphological, photosynthetic, oxidative damages and biochemical changes in cotton	Environmental Science and Pollution Research	2014	21		717–731	0.000	2.757	https://doi.org/10.1007/s11356-013-1920-6	W
52	Batool, R., Hameed, M., Ashraf, M., Fatima, S., Nawaz, T., Ahmad, M.S.A.	Structural and functional response to metal toxicity in aquatic <i>Cyperus alopecuroides</i> Rottb.	Limnologica	2014	48		46–56	2.000	1.655	https://doi.org/10.1016/j.limno.2014.06.002	W
53	Bharwana, S.A., Ali S., Farooq, M.A., Iqbal N., Hameed, A., Abbas, F., Ahmad, M.S.A.	Glycine betaine-induced lead toxicity tolerance related to elevated photosynthesis, antioxidant enzymes suppressed lead uptake and oxidative	Turkish Journal of Botany	2014	38		281-292	1.500	0.000	https://doi.org/10.3906/bot-1304-65	W
54	Naz, N., Batool, R., Fatima, S., Hameed, M., Ashraf, M., Ahmad, F., Ahmad, M.S.A.	Adaptive components of salinity tolerance in a saline desert grass <i>Lasiurus scindicus</i> Henrard	Ecological Research	2015	30		429-438	1.700	1.296	https://doi.org/10.1007/s11284-014-1236-0	W

No.	Authors	Title	Journal	Year	Vol	Iss	Page #	IF-C*	IF-Y**	DOI/Web link	HEC
55	Naz, N., Fatima, S., Hameed, M., Batool, R., Ashraf, M., Ahmad, F., Ahmad, M.S.A. , Naseer, M., Zahoor, A.,	Adaptations for salinity tolerance in <i>Sporobolus ioclados</i> (Nees ex Trin.) Nees from saline desert	Flora	2016	223		46-55	1.700	1.590	https://doi.org/10.1016/j.flora.2016.04.013	Nil
56	Iqbal, M., Iftikhar, M., Ahmad, M.S.A. , Hameed, M., Noreen, A., Ikram, M., Muneeb, M., Ahmad, I.	Vegetation dynamics of anthropogenically disturbed ecosystem in hilly Areas around Sargodha, Pakistan	International Journal of Agriculture and Biology	2016	18	4	830–836	0.000	0.758	https://www.fspublishers.org/Issue.php?no_download=published_papers/86710_.pdf&issue_id=3726	Y
57	Riffat, A. and Ahmad, M.S.A.	Ameliorating adverse effects of salt stress on maize (<i>Zea mays</i> L.) cultivars by exogenous application of sulfur at	Pakistan Journal of Botany	2016	48	4	1323-1334	0.900	0.658	https://www.pakbs.org/pjbot/PDFs/48(4)/02.pdf	W
58	Naseer, M., Hameed, M., Ashraf, M., Zahoor, A., Ahmad, F., Fatima, S., Ahmad, M.S.A. , Ahmad, K.S., Iftikhar, M.	Photosynthetic response in buttonwood (<i>Conocarpus erectus</i> L.) to salt stress.	Pakistan Journal of Botany	2017	49	3	847-856	0.900	0.690	https://www.pakbs.org/pjbot/papers/1497347543.pdf	W
59	Ahmad, I., Hussain, H., Ahmad, M.S.A. , Sultan, M.A., Ashraf, M.Y., Iftikhar, M., Noreen, A., Muneeb, A.	Spatio-temporal variations in nutritional and medicinal properties of thorn apple (<i>Solanum incanum</i> L.), A rare medicinal plant species of the Salt Range,	Pakistan Journal of Botany	2017	49	SI	201-210	0.900	0.690	https://www.pakbs.org/pjbot/papers/1496527148.pdf	W
60	Ahmad, K.S., Hameed, M., Hamid, A., Nawaz, F., Kiani, B.H., Ahmad, M.S.A. Deng, J., Ahmad, F., Hussain, I., Fatima,	Beating cold by being tough: impact of elevation on leaf characteristics in <i>Phleum himalaicum</i> Mez. endemic to Himalaya	Acta Physiologiae Plantarum	2018	40	3	56	2.400	1.438	https://doi.org/10.1007/s11738-016-2114-x	W
61	Riffat, A., M.S.A. Ahmad	Improvement in nutrient contents of maize (<i>Zea mays</i> L.) by sulfur modulation under salt stress	International Journal of Agronomy and Agricultural Research	2018	12	5	100-117	0.000	0.000	https://www.innspub.net/wp-content/uploads/2	Nil
62	Riffat, A., Ahmad, M.S.A.	Changes in organic and inorganic osmolytes of maize (<i>Zea mays</i> L.) by sulfur application under salt stress	Journal of Agricultural Science - Canada	2018	10		543-561	0.000	0.000	https://doi.org/10.5539/jas.v10n12p543	W

No.	Authors	Title	Journal	Year	Vol	Iss	Page #	IF-C*	IF-Y**	DOI/Web link	HEC
63	Rahat, Q.A., Hameed, M., Ahmad, M.S.A.	Contribution of root structural and functional features towards salinity tolerance in <i>Diplachne fusca</i> (L.) P. Beauv. ex Roem. & Schult. subsp.	Pakistan Journal of Botany	2019	51	3	773-779	0.900	0.672	http://dx.doi.org/10.30848/PJB2019-3(2)	W
64	Ozturk, M., Gucel, S., Altay, V., Ahmad, M.S.A. , Ashraf, M.Y., Ashraf, M.	Clustering of halophytic species from Cyprus based on ionic contents	Phyton-International Journal Of Experimental Botany	2019	88	--	63-68	1.300	0.282	http://dx.doi.org/10.32604/phyton.2019.04574	Y
65	Mansoor, U., Fatima, S., Hameed, M., Naseer, M., Ahmad, M.S.A. , Ashraf, M., Ahmad, F., Waseem, M.	Structural modifications for drought tolerance in stem and leaves of <i>Cenchrus ciliaris</i> L. ecotypes from the Cholistan Desert	Flora	2019	261		151485	1.700	1.423	https://doi.org/10.1016/j.flora.2019.151485	Nil
66	Riffat, A. and Ahmad, M.S.A.	Regulation of antioxidant activity in maize (<i>Zea mays</i> L.) by exogenous application of sulphur under saline	Turkish Journal of Botany	2020	44		62-67	1.500	1.109	http://dx.doi.org/10.3906/bot-1902-15	W
67	Riffat, A. and Ahmad, M.S.A.	Alleviation of adverse effects of salt stress on growth of maize (<i>Zea mays</i> L.) by sulfur supplementation	Pakistan Journal of Botany	2020	52	3	763-773	0.900	0.800	http://dx.doi.org/10.30848/PJB2020-3(38)	W
68	Ahmad, K.S., Wazarat, A., Mehmood, A., Ahmad, M.S.A. , Tahir, M.M., Nawaz, F., Ahmed, H., Zafar, M., Ulfat, A.	Adaptations in <i>Imperata cylindrica</i> (L.) Raeusch. and <i>Cenchrus ciliaris</i> L. for altitude tolerance	Biologia	2020	75		183–198	1.400	0.811	https://doi.org/10.2478/s11756-019-00380-2	W
69	Hameed, M., Fatima, S., Shah, S.M.R., Ahmad, F., Ashraf, M., Ghulam-Nabi, M., Ahmad, M.S.A. , Ahmad, I., Iqbal, U.	Ultrastructural response of wheat (<i>Triticum aestivum</i> L.) lines to potential allelopathy of <i>Alstonia scholaris</i> (L.) R. Br. leaf extract	Turkish Journal of Botany	2020	44		509-525	1.500	1.109	https://doi.org/10.3906/bot-2004-10	W
70	Riffat, A., Ahmad, M.S.A.	Sulfur: A multifunctional element improving nutritional value of maize grains	Pakistan Journal of Botany	2020	52	6	2031-2041	0.900	0.800	http://dx.doi.org/10.30848/PJB2020-6(44)	W
71	Akram, M.A., Ahmad M.S.A. , Rashid, M., Waqar, M., Khan, A.Z., Elahi, N.N., Iqbal, A., Latif, M.U., Muavia, M.A.	Foliar application of ascorbic acid alleviates adverse effects of zinc toxicity in <i>Pisum sativum</i> L. plants	Plant Protection	2020	4	2	63-73	0.000	0.000	http://dx.doi.org/10.33804/pp.004.02.3314	W

No.	Authors	Title	Journal	Year	Vol	Iss	Page #	IF-C*	IF-Y**	DOI/Web link	HEC
72	Bibi, S., Ahmad, M.S.A. , Hameed, M.	Role of leaf micro-structural and topographical traits in ecological success of some arid zone grasses	Pakistan Journal of Botany	2021	53	2	691-700	0.900	0.972	http://dx.doi.org/10.30848/PJB2021-2(43)	W
73	Kamal, A., Ahmad, M.S.A. , Hussain, M. Ahmad, R.	Role of physiological plasticity in adaptability of some native grasses to hyper-saline environments	Pakistan Journal of Botany	2021	53	3	791-804	0.900	0.972	http://dx.doi.org/10.30848/PJB2021-3(10)	W
74	Iftikhar, M., Ahmad, I., Hameed, M., Fatima, F., Ahmad, F., Ashraf, M., Nazish, Z., Ahmad, M.S.A. , Muneeb, A., Sultan, M.A.	Anatomical aspects of tolerance in a potential weed sun spurge (<i>Euphorbia helioscopia</i> L.) against post-emergence herbicides	Weed Research	2021	61		126–136	2.200	2.424	https://doi.org/10.1111/wre.12464	W
75	Ahmad, I., Shamsi, L., Hameed, M. Fatima, S., Ahmad, F., Ahmad, M.S.A. , Ashraf, M., A. Javaid, Sultan,	Micro-morphological response of some native dicotyledonous species to particulate pollutants emitted from stone crushing activities	Environmental Science and Pollution Research	2021	28		25529–25541	0.000	4.223	https://doi.org/10.1007/s11356-021-12463-2	W
76	Fatima, S., Hameed, M., Naz, n., Shah, S.M.R., Naseer, M., Ahmad, M.S.A. , Ashraf, M., Ahmad, F., Khalil, S., Ahmad, I.	Survival strategies in khavi grass [<i>Cymbopogon jwarancusa</i> (Jones) Schult.] colonizing hot hypersaline and arid environments	Water Air and Soil Pollution	2021	232	82	1--17	3.800	2.520	https://doi.org/10.1007/s11270-021-05050-1	W
77	Fatima, S., Hameed, M., Ahmad, F., Khalil, S., Ahmad, M.S.A. , Ashraf M., Ahmad, I.	Diversity and distribution of the family poaceae along an elevation gradient in the sub-Himalayan mountains	Phytocoenologia	2021	50	4	383–396	0.800	2.043	https://doi.org/10.1127/phyto/2021/0378	W
78	Waseem, M., Mumtaz, S., Hameed, M., Fatima, S., Ahmad, M.S.A. , Ahmad, F., Ashraf, M., Ahmad, I.	Adaptive traits for drought tolerance in some primitive red-grained wheat (<i>Triticum aestivum</i> L.) landraces	Arid Land Research and Management	2021	35	4	414-445	1.900	1.696	https://doi.org/10.1080/15324982.2021.1905103	W
79	Kamal, A., Ahmad, M.S.A. , Alvi, A.K., Hameed, M., Ahmad, F. Ghaffar, K.	Soil salinity differentially influences soil physicochemical properties and nutrient availability in rhizospheric soils of grasses growing in hyper-saline-arid	Soil and Environment	2021	40	1	69-84	0.000	0.000	https://doi.org/10.25252/SE/2021/202546	W

No.	Authors	Title	Journal	Year	Vol	Iss	Page #	IF-C*	IF-Y**	DOI/Web link	HEC
80	Alvi, A.K., Ahmad, M.S.A. , Riffat, R., Ashraf, M.Y.	Comparative efficacy of various nitrogen fertilizers in improving growth of cluster bean	Pakistan Journal of Agricultural Sciences	2021	58	X	975-984	0.700	0.748	http://dx.doi.org/10.21162/PAKJAS/21.1217	Y
81	Bibi, S., Ahmad, M.S.A. , Hameed, M., Alvi, A.K., Ahmad, F.	Influence of soil and water physico-chemical properties on vegetation structure of artificial ponds established within bamboo plantations	Pakistan Journal of Botany	2021	53	6	2085-2092	0.900	0.972	http://dx.doi.org/10.30848/PJB2021-6(24)	W
82	Alvi, A.K., Ahmad, M.S.A. , Rafique, T., Naseer, M., Farhat, F., Tasleem, H., Nasim, A.	Screening of maize (<i>Zea mays</i> L.) genotypes for drought tolerance using photosynthetic pigments and anti-oxidative enzymes as selection criteria	Pakistan Journal of Botany	2022	54	1	33-44	0.900	1.101	http://dx.doi.org/10.30848/PJB2022-1(1)	W
83	Iqbal, U., Hameed, M., Ahmad, F., Ahmad, M.S.A. , Ashraf, M.	Adaptive strategies for ecological fitness in <i>Calotropis procera</i> (Aiton) W. T. Aiton	Arid Land Research and Management	2022	36	2	197-223	1.900	1.955	https://doi.org/10.1080/15324982.2021.1961922	W
84	Abbas, A., Ahmad, M.S.A. , Ashraf, M., Ali, Q., Alvi, A.K.	Role of antioxidative defense system in amelioration of cadmium-induced phytotoxic effects in germinating seeds of maize (<i>Zea mays</i> L.)	Crop & Pasture Science	2022	73	5	599-613	1.800	2.249	https://doi.org/10.1071/CP21329	W
85	Mumtaz, S., Hameed, M., Ahmad, F., Ahmad, M.S.A. , Ahmad I., Ashraf, M., Saleem, M.H.	Structural and functional determinants of physiological pliability in <i>Kyllinga brevifolia</i> Rottb. for survival in hyper-saline saltmarshes	Water Air and Soil Pollution	2022	232		Article: 424	3.800	2.984	https://doi.org/10.1007/s11270-021-05391-x	W
86	Ummar, I.; Hameed, M., Ahmad, F., Ahmad, M.S.A. , Ashraf, M., Kaleem, M., Shah, Syed M.R., Irshad, M.	Contribution of structural and functional modifications to wide distribution of Bermuda grass <i>Cynodon dactylon</i> (L) Pers.	Flora	2022	286		151973	1.700	2.220	https://doi.org/10.1016/j.flora.2021.151973	Nil
87	Naz, N., Fatima, S., Hameed, M., Ahmad, F., Ahmad, M.S.A. , Ashraf, M., Shahid, H., Iqbal, U., Kaleem, M., Shah, S.M.R., Ahmad, I.	Modulation in plant micro-structures through soil physicochemical properties determines survival of <i>Salsola imbricata</i> Forssk. in hypersaline environments	Journal of Soil Science and Plant Nutrition	2022	22		861–881	3.400	3.610	https://doi.org/10.1007/s42729-021-00697-5	X

No.	Authors	Title	Journal	Year	Vol	Iss	Page #	IF-C*	IF-Y**	DOI/Web link	HEC
88	Babar, Z.U., Ahmad, I., Hameed, M., Ahmad, M.S.A.	Ion homeostasis and osmoregulation in <i>Tamarix dioica</i> Roxb. ex Roth through modulation of structural and functional features	Pakistan Journal of Botany	2022	54	4	1221-1230	0.900	1.101	http://dx.doi.org/10.30848/PJB2022-4(16)	W
89	Sarwar, Y., Asghar, A., Hameed, M., Fatima, S., Ahmad, F., Ahmad, M.S.A. , Ashraf, M., Shah, S.M.R., Basharat, S., Iqbal, U., Irshad	Structural responses of differentially adapted <i>Cenchrus setigerus</i> Vahl ecotypes to water deficit	Environmental and Experimental Botany	2022	194		104746	4.500	6.028	https://doi.org/10.1016/j.envexpbot.2021.104746	W
90	Ashraf M., Al-Qurainy, F., Ahmad, M.S.A. , Iqbal, M.Y., Mehmood, A., Riffat, A., Alvi., AK.	Morpho-physiological diversity of barley (<i>Hordeum vulgare</i> L.) germplasm for heat tolerance	Turkish Journal of Botany	2022	46		37-49	1.500	1.429	https://doi.org/10.3906/bot-2107-28	W
91	Hameed, M., Fatima, S., Ahmad, F., Zafar, S.N., Ahmad, M.S.A. , Iqbal, U., Bibi, S., Ahmad, I.	Anatomical modifications in some <i>Bambusa</i> Schreb. species to combat ecological constraints	International Journal of Applied and Experimental Biology	2022	1	1	21-31	0.000	0.000	https://submission.s.eminentscientists.com/index.php/IJAEB/article/download	Nil
92	Iqbal, U., Hameed, M., Ahmad, F., Ahmad, M.S.A. , Muhammad Ashraf	Unraveling the survival potential of a desert halophyte <i>Salvadora oleoides</i> Decne. across heterogenic environments	Trees-Structure and Function	2022	36	-	1085–1104	2.100	2.888	https://doi.org/10.1007/s00468-022-02274-4	W
93	Nargis N, Fatima, S., Hameed, M., Ashraf, M., Ahmad, M.S.A. , Ahmad, F., S.M.R. Shah, Islam, F., Ahmad, I., Ejaz, I., Naseer, M.	Contribution of structural and functional adaptations of hyper-accumulator <i>Suaeda vera</i> Forssk. ex J.F. Gmel. to adaptability across salinity gradients in hot desert	Environmental Science and Pollution Research	2022	29		64077–64095	0.000	5.190	https://doi.org/10.1007/s11356-022-19167-1	W
94	Shah, S.M.R., Hameed M. and Ahmad, M.S.A.	Contribution of environmental and soil physicochemical attributes in invasiveness of <i>Ipomoea carnea</i> Jacq. in diverse habitats along elevation and	Pakistan Journal of Botany	2022	54	6	2013-2024	0.900	1.101	http://dx.doi.org/10.30848/PJB2022-6(4)	W

No.	Authors	Title	Journal	Year	Vol	Iss	Page #	IF-C*	IF-Y**	DOI/Web link	HEC
95	Fatima, S., Hameed, M., Ahmad, F., Ahmad, M.S.A. , Khalil, S., Munir, M., Ashraf, M., Ahmad, I., Ahmad, K.S., Kaleem, M.	Structural and functional responses in widespread distribution of some dominant grasses along climatic elevation gradients	Flora	2022	—		152034	1.700	2.220	https://doi.org/10.1016/j.flora.2022.152034	Nil
96	Bibi, S., M.S.A. Ahmad , Hameed, M., Ahmad, F., A.K. Alvi, A. Kamal	Morpho-physiological, biochemical and leaf epidermal responses of <i>Desmostachya bipinnata</i> L. in arid habitats	Arid Land Research and Management	2022	36		445–464	1.900	1.955	https://doi.org/10.1080/15324982.2022.2052202	W
97	Ahmad, F., Hameed, M., Ahmad, M.S.A.	Taxonomic significance of palynological studies for identification of two morphologically similar <i>Malva</i> species	Microscopy Research and Technique	2022			2826-2834	2.000	2.893	https://doi.org/10.1002/JEMT.24131	W
98	Ahmad, K.S., Javaid, A., Hameed, M., Fatima, S., Ahmad, F., Ashraf, M., Shah, S.M.R., Ahmad, M.S.A. ,	Survival strategies in two high altitude <i>Sorghum</i> species from western Himalayas	Acta Physiologiae Plantarum	2022	44		60	2.400	2.736	https://doi.org/10.1007/s11738-022-03392-9	W
99	Kaleem, M., Hameed, M. Ahmad, F., Ashraf, M., Ahmad, M.S.A.	Anatomical and physiological features modulate ion homeostasis and osmoregulation in aquatic halophyte <i>Fimbristylis complanata</i> (Retz.)	Acta Physiologiae Plantarum	2022	44		59	2.400	2.736	https://doi.org/10.1007/s11738-022-03400-y	W
100	Nawaz, S., Ahmad, M.S.A. , Nazir, A., Nijabat, A., Khan, S., Leghari, A.B.G., Hussain, F., Khan, M.A., Awan, A.N., Naseem, Z. and Shafqat, U	Gamma irradiation a potent mitigant of saline stress in maize crop	GU Journal of Phytosciences	2022	2	1	09--16	0.000	0.000	https://www.gudgk.edu.pk/uploads/journals/phy-to-science/Gu-J-Phytosci-Volume-	Y
101	Jabeen, S., Kusar, S., Akram, M.A., Haroon, A., Ahmad, M.S.A. , Iqbal, A. and Latif, M.U.	Proline induced changes in redox balance and photosynthetic activity of wheat (<i>Triticum aestivum</i> L.) under saline conditions	Plant Protection	2022	6	1	57-73	0.000	0.000	https://doi.org/10.33804/pp.006.01.4125	W

No.	Authors	Title	Journal	Year	Vol	Iss	Page #	IF-C*	IF-Y**	DOI/Web link	HEC
102	Kaleem, M., Shabir, F., Hussain, I., Hameed, M., Ahmad, M.S.A. , Mehmood, A., Riaz, S., Afzaal, Z., Maqsood, M.F., Iqbal, U., Shah, S.M.R., Irshad, M.	Calcium ameliorates cadmium toxicity in maize by modulating the growth, organic osmolytes and antioxidant defense system	PLOS ONE	2022	17	6	e0269162	2.900	3.752	https://doi.org/10.1371/journal.pone.0269162	W
103	Akram, M.A., Ahmad, M.S.A. , Waqar, M., Kusar, S., Iqbal, A., Latif, M.U.	Effect of foliar spray of ascorbic acid on nodulation, gas exchange attributes and mineral ion contents of <i>Pisum sativum</i> under zinc stress	Plant Protection	2022	6	2	101-111	0.000	0.000	https://doi.org/10.33804/pp.006.02.4201	W
104	Aslam, H., Ahmad, M.S.A. , Alvi, A.K. Rani, W., Athar, H.R., Al-Ashkar, I., Almutairi, K.F., Ullah, N., Ayman, E.S.	He-Ne laser priming enhances water stress tolerance of wheat through differential modification of photosynthetic pigments and activities of anti-oxidative enzymes	Agronomy-Basel	2022	12		2376	3.300	3.949	https://doi.org/10.3390/agronomy12102376	W
105	Riaz, S., Basharat, S., Ahmad, F., Hameed, M., Fatima, S., Ahmad, M.S.A. , Shah, S.M.R., Asghar, A., El-Sheikh, M.A., Kaushik, P.	<i>Dactyloctenium aegyptium</i> (L.) Willd. (Poaceae) differentially responds to pre- and post-emergence herbicides through micro-structural alterations	Agriculture-Basel	2022	12	-	831	3.300	3.408	https://doi.org/10.3390/agriculture12111831	W
106	Bibi, S., Ahmad, M.S.A. , Hameed, M., Alvi, A.K.	Modulation of physiological plasticity through structural and functional modifications in <i>Stipagrostis plumosa</i> L. for adaptability to hyper-arid environments	Turkish Journal of Botany	2022	46		435-458	1.500	1.429	https://doi.org/10.55730/bot-2111-35	W
107	Asghar, N., Hameed, M., Ahmad, M.S.A.	Ion homeostasis in differently adapted populations of <i>Suaeda vera</i> Forssk. ex J.F. Gmel. for phytoremediation of hypersaline soils	International Journal of Phytoremediation	2023	25	-	47-65	3.400	4.003	https://doi.org/10.1080/15226514.2022.2056134	W

No.	Authors	Title	Journal	Year	Vol	Iss	Page #	IF-C*	IF-Y**	DOI/Web link	HEC
108	Parvez, I., Ahmad, I., Hameed, M., Ahmad, M.S.A.	Plasticity in anatomical traits of <i>Cyperus niveus</i> Retz. along elevational gradient of dry sub-Himalayan mountains	Arid Land Research and Management	2023	37	2	197–221	1.900	3.605	https://doi.org/10.1080/15324982.2022.2138632	W
109	Rahat, Q.U.A., Hameed, M., Fatima, S., Ahmad, M.S.A. , Ashraf, M., Ahmad, F., Khalil, S., Munir, M., Shah, S.M.R., Ahmad, I., Younis, A.	Structural determinants of phytoremediation capacity in saltmarsh halophyte <i>Diplachne fusca</i> (L.) P. Beauv. ex Roem. & Schult. subsp. <i>Fusca</i>	International Journal of Phytoremediation	2023	25	5	630–645	3.400	4.003	https://doi.org/10.1080/15226514.2022.2098251	W
110	Mahmood, S., M.G. Shahid, M. Nadeem, M.S.A. Ahmad , M. Irfan	Stimulatory effect of medium components on phytase production by <i>Aspergillus niger</i> and biotechnological application as a poultry feed additive	Kuwait Journal of Science	2023	50	1A	1-14	1.200	0.806	https://doi.org/10.48129/kjs.17947	W
111	Shah, S.M.R., Hameed, M., Ahmad, M.S.A. , Wahid, M.A.	Invasive success of <i>Ipomoea carnea</i> Jacq. through plasticity in physio-anatomical traits across diversified habitats	Biological Invasions	2023	25	-	197–219	2.800	3.605	https://doi.org/10.1007/s10530-022-02909-0	W
112	Iqbal, U, Hameed, M., Ahmad, F., Ahmad, M.S.A. , Naz, N., Ashraf, M., Kaleem, M.	Modulation of structural and functional traits in facultative halophyte <i>Salvadora oleoides</i> Decne. for adaptability under hyper-arid and saline environments	Journal of Arid Environments	2023	213	-	104965	2.600	2.759	https://doi.org/10.1016/j.jaridenv.2023.104965	W
113	Naeem, Z., Ahmad, M.S.A. , Hameed, M., Rasul, F.	Physiological and anatomical modifications of <i>Datura stramonium</i> L . roots collected from dry environments	Pakistan Journal of Botany	2023	55	4	1429-1438	0.900	1.101	http://dx.doi.org/10.30848/PJB2023-4(7)	W

No.	Authors	Title	Journal	Year	Vol	Iss	Page #	IF-C*	IF-Y**	DOI/Web link	HEC
114	Riffat, A., Ahmad , N., Ahmad, M.S.A. , Alvi, A.K.	Sulfur: A macronutrient having potential to improve salinity tolerance in plants	Pakistan Journal of Botany	2023	55	4	1321-1333	0.900	1.101	http://dx.doi.org/10.30848/PJB2023-4(33)	W
115	Ahmad, M.S.A. , Riffat, A., Hussain, M., Hameed, M., Alvi, A.K.	Toxicity and tolerance of nickel in sunflower (<i>Helianthus annuus</i> L.)	Environmental Science and Pollution Research	2023	30	-	50346–50363	0.000	5.190	https://doi.org/10.1007/s11356-023-25705-2	W
116	Fatima, S., Hameed, M., Ahmad, F., Ahmad, M.S.A. , Anwar, M., Munir, M., Ashraf, M., Shah, S.M.R., Basharat, S., Ahmad, I., Khalil, S.	Dramatic changes in anatomical traits of a C4 grass <i>Chrysopogon serrulatus</i> Trin. (Poaceae) over a 1000 m elevational gradient	Journal of Mountain Science	2023	20	5	1316-1335	2.300	2.371	https://doi.org/10.1007/s11629-022-7385-7	W
117	Muneeb, M., Ahmad, I., Ahmad, M.S.A. , Fatima, S., Hameed, M., Ahmad, F., Asghar, A., Basharat, S., Shah, S.M., Shafqat, J., Hassan, I.F.Z.	Ethnobotanical and economic uses of some medicinal plants from native saline areas	International Journal of Applied and Experimental Biology	2023	2	2	147-154	0.000	0.000	https://doi.org/10.56612/ijaeb.v1i1.45	Nil
118	Shah, S.M.R., Fatima, S., Hameed, M., Basharat, S., Ahmad, M.S.A. , Ahmad, F., Asghar, A., Anwar, M., Yasmin, F., Ashraf, M., Shafqat, J.	Allelochemicals extract of starfruit (<i>Averrhoa carambola</i> L.) modulates wheat growth through alterations in anatomical architecture	Crop & Pasture Science	2023	74	5	423-437	1.800	2.249	https://doi.org/10.1071/CP22373	W
119	Iqbal, U., Hameed, M., Ahmad, F., Ahmad, M.S.A. , Ashraf, M.	Fate of rubberbush [<i>Calotropis procera</i> (Aiton) W. T. Aiton] in environmental adversaries modulated by microstructural and functional attributes	Journal of Arid Land	2023	15	5	578-601	2.700	2.483	https://doi.org/10.1007/s40333-023-0012-9	W

No.	Authors	Title	Journal	Year	Vol	Iss	Page #	IF-C*	IF-Y**	DOI/Web link	HEC
120	Ahmad, I., Sohail, M., Hameed, M., Fatima, S., Ahmad, M.S.A. , Ahmad, F., Basharat, S., Asghar, A., Ahmad, K.S., Shah, S.M.R., Shafqat, J., Parveen, Z.	Morpho-anatomical determinants of yield potential in <i>Olea europaea</i> L. cultivars belonging to diversified origin grown in semi-arid environments	PLOS ONE	2023	18	6	e0286736	2.900	3.752	https://doi.org/10.1371/journal.pone.0286736	W
121	Asghar, N., Hameed, M., Ahmad M.S.A. , Ahmad, F.	Soil-root relationship in a leaf succulent halophyte Suaeda vera from differently salt-affected habitats	Water Air and Soil Pollution	2023	234	-	431	3.800	2.984	https://doi.org/10.1007/s11270-023-06407-4	W
122	Tabassam, Q., Ahmad, M.S.A. , Alvi, A.K., Awais, M., Kaushik, P., El-Sheikh, M.A.	Accumulation of different metals in tomato (<i>Lycopersicon esculentum</i> L.) fruits irrigated with wastewater	Applied Sciences-Basel	2023	13	-	9711	2.500	2.838	https://doi.org/10.3390/app13179711	W
123	Naz, N., Fatima, S., Hameed, M., Ahmad, M.S.A. , Shah, S.M.R., Ahmad, F., Anwar, M., Basharat, S., Asghar, A., Ashraf, M.	Phytoremediation potential modulated by structural and functional traits in a saline desert halophyte <i>Fagonia indica</i> Burm. f.	Environmental Science and Pollution Research	2023	30		80693–80712	0.000	5.190	https://doi.org/10.1007/s11356-023-28162-z	W
124	Bibi, S., Ahmad, M.S.A. , Hameed, M., Alvi, A.K.	Water conservation strategies in big cordgrass (<i>Desmostachya bipinnata</i> L.) for ecological success in hyper-arid and saline-arid environments	Arid Land Research And Management	2024	38	1	81–96	1.900	1.900	https://doi.org/10.1080/15324982.2023.2234328	W
125	Ahmad, I., Ahmad, M.S.A. , Hameed, M., Muneeb, A., Imran, M., Hussain, M., Ahmad, F., Ahmad, F., Asghar, A., Basharat, S., Fatima, S., Parvez, I., Shah, S.M.R.	Spatio-temporal variation in synthesis of some nutraceutical components of thorowax foldwing (<i>Dicliptera bupleuroides</i> Nees)	International Journal of Applied and Experimental Biology	2024	3	1	37-49	0.000	0.000	https://doi.org/10.56612/ijaaeb.v3i1.80	Nil

No.	Authors	Title	Journal	Year	Vol	Iss	Page #	IF-C*	IF-Y**	DOI/Web link	HEC
126	Javed, M., Ahmad, M.S.A. , Rani, W., Hameed, M., Ahmad, F.	Influence of soil physicochemical properties on diversity and distribution of aquatic vegetation in riverine forested habitats	International Journal of Applied and Experimental Biology	2024	3	1	93-103	0.000	0.000	https://doi.org/10.56612/ijaaeb.v3i1.82	Nil
127	Basharat, S., Ahmad, F., Hameed, M., Ahmad, M.S.A. , Asghar, A., Fatima, S., Ahmad, K.S., Shah, S.M.R., Hashem, A., Avila-Quezada, G.D., Abd Allah, E.F., Abbas, Z.	Structural and Functional Strategies in <i>Cenchrus</i> Species to Combat Environmental Extremities Imposed by Multiple Abiotic Stresses	Plants-Basel	2024	13	-	203	4.000	4.000	https://doi.org/10.3390/plants13020203	W
128	Nawaz, T., Ahmad, M.S.A. , Hameed, M., Wahid, M.A.	Re-colonization potential of native vegetation in habitats fragmented for construction of motorways	Pakistan Journal of Botany	2024	56	3	1085-1097	0.900	0.900	http://dx.doi.org/10.30848/PJB2024-3(4)	W
129	Naz, N., Asghar, A., Basharat, S., Fatima, S., Hameed, M., Ahmad, M.S.A. , Ahmad, F., Shah, S.M.R., Ashraf, M.	Phytoremediation through microstructural and functional alterations in alkali weed (<i>Cressa cretica</i> L.) in the hyperarid saline desert	International Journal of Phytoremediation	2024	26	6	913–927	3.400	3.400	https://doi.org/10.1080/15226514.2023.2282044	W
130	Ali, M.F., Ahmad, M.S.A. , Gaafar, A.R.Z., Shakoor, A.	Seed pre-treatment with electromagnetic field (EMF) differentially enhances germination kinetics and seedling growth of maize (<i>Zea mays</i> L.)	Journal Of King Saud University Science	2024	36	5	103184	3.700	3.700	https://doi.org/10.1016/j.jksus.2024.103184	W

No.	Authors	Title	Journal	Year	Vol	Iss	Page #	IF-C*	IF-Y**	DOI/Web link	HEC
131	Basharat, S., Ahmad, F., Hameed, M., Naeem, M.S., Asghar, A., Ahmad, M.S.A. , Fatima, S.	Defense strategies in <i>Cenchrus biflorus</i> , <i>C. ciliaris</i> and <i>C. orientalis</i> to cope aridity, salinity and cold stresses	Arid Land Research and Management	2024	38	3	409-446	1.900	1.900	https://doi.org/10.1080/15324982.2023.2285886	W
132	Imran, M., Ahmad, I., Ali, A., Basharat, S., Hameed, M., Ahmad, M.S.A. , Muneeb, A.	Modifications in anatomical traits of tall flat sedge <i>Cyperus exaltatus</i> R etz. colonizing differently salt-affected wetlands	Pakistan Journal of Botany	2024	56	6	2089-2096	0.900	0.900	http://dx.doi.org/10.30848/PJB2024-6(9)	W
133	Maqsood, S., Ahmad, F., Ahmad, M.S.A. , Naeem, M.S.	Structural and functional traits for salinity tolerance in differentially adapted ecotypes of <i>Phragmites australis</i>	Journal of Xi'an Shiyu University, Natural Science Edition	2024	20	2	837-874	0.000	0.000		
134	Ahmad, M.S.A. , Hameed, M., Kaleem, M., Fatima, S., Ahmad, F., Farooq, M., Maratib, M., Aziz, I.	Foliar architecture differentially restrains metal sequestration capacity in wheat grains (<i>Triticum aestivum</i> L.) grown in hyper-chloride contaminated soils	Environmental Science and Pollution Research	2023	30		113457–113480	0.000	0.000	https://doi.org/10.1080/10.1007/s11356-023-30340-y	W
135	Naeem, Z., Ahmad, M. S. A. , Hameed, M., Bibi, S., Rani, W., Ratnasekera, D., Soufan, W., Adnan, M., El Sabagh	Adaptability potential of <i>Justicia adhatoda</i> L. to xeric environments through root morpho-physiological and architectural modulations	Applied Ecology and Environmental Research	2024	22	4	2977-2998	0.600	0.600	http://dx.doi.org/10.15666/aeer/220429772998	W

No.	Authors	Title	Journal	Year	Vol	Iss	Page #	IF-C*	IF-Y**	DOI/Web link	HEC
136	Kaleem, M., Hameed, M., Ahmad, M.S.A., Ahmad, F., Iqbal, U., Asghar, N., Ameer, A., Mehmood, A., Shehzadi, N., Chishti, M.S., Hashem, A., Abd-Allah, E.F.	Role of leaf micro-structural modifications in modulation of growth and photosynthetic performance of aquatic halophyte <i>Fimbristylis complanata</i> (Retz.) under temporal salinity regimes	Scientific Reports	2024	14		AN: 26442	3.800	3.800	https://doi.org/10.1038/s41598-024-77589-y	W
137	Atiq, M., Ahmad, M.S.A. , Ali, M.F., Alvi, A.K., Rani, W., Iqbal, M.A., Al-Ashkar, I., El Sabagh, A.	Exogenously applied proline mitigates adverse effects of salt stress in wheat (<i>Triticum aestivum</i>) through differential modulation of anti-oxidative defence system and osmolytes accumulation	Applied Ecology and Environmental Research	2024	22	6	5929-5947	0.600	0.600	http://dx.doi.org/10.15666/aeer/2206_59295947	W
138	Hussain, A., Ahmad, M.S.A. , Riffat, A., & Rani, W.	Taxonomic significance of leaf epidermal features for identification of some <i>Ficus</i> species.	International Journal of Applied and Experimental Biology	2025	4	1	49-59	0.000		https://doi.org/10.56612/ijaaeb.v1i1.110	
139	Naz, F., Ahmad, M.S.A., Shahbaz M., & Rasul, F.	A comparison of exogenous proline application methods in enhancing salinity tolerance of flex (<i>Linum usitatissimum</i> L.)	Pakistan Journal of Botany	2025	57	2	409-424	0.900		https://www.pakbs.org/pjbot/paper_details.php?id=13235	
Published Online											

No.	Authors	Title	Journal	Year	Vol	Iss	Page #	IF-C*	IF-Y**	DOI/Web link	HEC
	Asghar, A., Ameer, A., Ahmad, F., Hameed, M., Ahmad, M.S.A. , Qin, M., Asghar, A., Khan, S.A., Li, H.Y. and Zhang, Z.F.	Adaptive Response of Rare Mountain Sedge (<i>Carex ecostata</i> C.B. Clarke) to Hyper-Cold Environments	Plant and Soil.	2024			Accepted			https://doi.org/10.1007/s11104-024-07108-5	
	Accepted										
	Islam, F., Shah, S.M.R., Basharat, S., Hameed, M., Ahmad, M.S.A. , Ahmad, F., Asghar, A., Fatima, S., Nazish, Z., Ashraf, M. and Abbas, Z.	Plant herbivory defense mediated by structural and functional modifications in wild olive		2025						http://dx.doi.org/10.2139/ssrn.5041074	