

CURRICULUM VITAE

MUHAMMAD NAUMAN KHAN

A smart team leader and elegant group member and can work under any sort of situation



PERSONAL BIO-DATA

Name	Muhammad Nauman Khan
S/O	Abdul Qayyum (Late)
Status	On Job (Contract Base)
Religion	Islam
Nationality	Pakistani
Domicile	KP
NIC #	17101-9636535-9
Date of Birth	12-02-1997
Mailing Address	Vill: Ochawala, P/O and Tehsil Shabqadar fort, Distt: Charsadda
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ACADEMIC POSITIONS HELD:

- Lecturer (Biology) at Alqalam College System, Govt; College Chowk, Peshawar
- Junior Teacher (Biology) 26 November 2019 to 29 January 2023 at Agriculture University Public School and College (AUPS&C) Boys, The University of Agriculture, Peshawar.
- Course Coordinator at Joint Testing Service, Islamabad
- Researcher at Department of Botany, Bacha Khan University, Charsadda
- Researcher at Department of Botany, Islamia College Peshawar
- Sub-Examiner at Red Marker Systems (Private) Limited, Islamabad Capital Territory (I.C.T.) 44000, Islamabad.

CURRENT POSITION:

- Trained Graduate Teacher (TGT-Biology), BPS-16 from 25 January 2023 to till date at University Public School (UPS), University of Peshawar, 25120, Pakistan.
- Warden at UCB-Hostel, University of Peshawar from 16-02-23 to till date.
- Peer Reviewer at “Journal of Plant Sciences” Science PG, New York, NY, 10020, U.S.A
- Peer Reviewer at “American Journal of Plant Biology” Science PG, New York, NY, 10020, U.S.A
- Peer Reviewer at “Environmental and Experimental Botany” hosted by Elsevier since November 2022
- General Secretary “Centre of Plant Biodiversity-Alumni” Centre of Plant Biodiversity and Botanical Garden University Of Peshawar.

ADMINISTRATIVE EXPERIENCE:

- ✓ Member of the “Hygiene & Maintenance Committee (HMC)” IBGE Staff Hostel, The University of Agriculture, Peshawar from 30-08-2021 to till date.

ACADEMIC PROFILE:

Degree/Certificate	Subjects	Marks/CGPA	Year of Passing	Institution
<i>S.S.C</i>	<i>Science</i>	<i>854/1050</i>	<i>2012</i>	<i>Shabqadar Students Academy, Shabqadar Fort</i>
<i>F.S.C</i>	<i>Pre-Medical</i>	<i>840/1100</i>	<i>2014</i>	<i>Govt; College Peshawar</i>
<i>B.S (Hon)</i>	<i>Botany</i>	<i>3.39/4.00</i>	<i>2018</i>	<i>University of Peshawar</i>
<i>M. Phil</i>	<i>Botany</i>	<i>3.94/4.00</i>	<i>2020</i>	<i>Bacha Khan University, Charsadda</i>
<i>D.I.T</i>	<i>Diploma</i>	<i>1169/1400</i>	<i>2017</i>	<i>The Professional Institute, Peshawar</i>
<i>P.T.C</i>	<i>Certificate</i>	<i>646/900</i>	<i>2016</i>	<i>AIOU, Islamabad</i>
<i>B.E.D</i>	<i>Bachelor of Education</i>	<i>1323/1800</i>	<i>2020</i>	<i>AIOU, Islamabad</i>
<i>M.E.D</i>	<i>Master of Education</i>	<i>913/1200</i>	<i>2022</i>	<i>AIOU, Islamabad</i>
<i>P.hD</i>	<i>Botany</i>	<i>3.74/4.00</i>	<i>2024</i>	<i>ICP, Pakistan</i>

FIELDS OF SPECIALIZATION:

Plant Ecology and Ethnobotany

Major Field: Botany

Area of Specialization: Plant Ecology and Ethnobotany

S. No	Courses studied at M. Phil Level	Credit Hours	Subject Incharge Name
1.	Vegetation Resources of Pakistan	4	Dr. Fayyaz Asad
2.	Natural Resource Management	4	Dr. Summaira Shah
3.	Mycorrhizal Interaction	4	Dr. Tabassum Yaseen
4.	Biostatistics and its Application	4	Dr. Imtiaz Ahmad
5.	Advances in Plant Physiology	4	Dr. Tabassum Yaseen
6.	Modern Trends in Taxonomy	4	Dr. Fazal Rahim
Total		24	

ADDITIONAL COMPUTER LITERACY:

- MS Word for long Document
- MS Excel for large data matrices
- MS PowerPoint for lectures, posters and conferences.

PROFESSIONAL EXPERIENCE:

- Display of scientific findings for the benefit of students, researchers and general public
- Presented data/findings in schools for awareness
- Teach Biology at Matric and Inter level
- Perform Exam invigilation duties at School, College and University level

SCIENTIFIC BODIES MEMBERSHIP:

- Life time member of “*Pakistan Botanical Society*” from November 2017
- Member of the *Weed science society of Pakistan*
- Member of “*Khwarizmi Science Society*” Lahore, Pakistan

SCHOLARSHIPS/AWARDS:

- Merit scholarship F.S.C 1st year (Punjab endowment education foundation, PEEF) 2013
- Merit scholarship F.S.C 2nd year (Punjab endowment education foundation, PEEF) 2014
- Merit scholarship B.S 1st year (Punjab endowment education foundation, PEEF) 2015
- Mora scholarship in BS (Hon) in 2016
- 1st position in skit competition “*Second student’s talent award show*” arranged by Biodiversity conservation society held at Centre of plant biodiversity and botanical garden, University of Peshawar (13, January, 2016).
- Got laptop in Prime Minister Laptop scheme, phase 4.

CO-CURRICULAR ACTIVITIES

- Participating in Inter-School & College Speech Competition 2022 Organized by Human Care Foundation & Agriculture University Public School and College (AUPS&C), The University of Agriculture, Peshawar.
- Organizing the event entitled “Seerat-un-Nabi (PBUH)” conference organized by Literary and Cultural Society, The University of Agriculture, Peshawar.

CONFERENCES/ SYMPOSIA/ WORKSHOP/TRAINING ATTENDED:

1. 5th National conference on trends towards biodiversity conservation in Pakistan organized by Centre of plant biodiversity and botanical garden, University of Peshawar held at Bara Gali summer campus 2 University of Peshawar (2-4, August, 2015).
2. Two days seminar on “*Statistical facts & data analytics of child nutrition status in flood hit areas of KP*” organized by the Department of Mathematics, Statistics & Computer Science held at The University of Agriculture Peshawar (5-6, January, 2017).
3. One day training workshop on “*Climate Change: Can we make a difference*” organized by Crying Sky’s Ambassadors in collaboration with Islamia College University Peshawar, held on May 16, 2017, at Roos Keppel Hall, Islamia College Peshawar.
4. 7th National conference on *Biodiversity conservation, livelihood and sustainable development* organized by Centre of Plant Biodiversity and Botanical Garden, University of Peshawar held at Bara Gali summer campus 2 University of Peshawar (10-12, July, 2017).
5. Third International Symposium on “*Conservation Issues of Edible Wild Resources of Hindukush Himalayas*” at Bara Gali Summer Campus, Organized by Department of Botany, Islamia College Peshawar & University of Peshawar (21-24 July, 2017).
6. 3 days National conference on “ Sustainable Development Through Biodiversity Conservation and Ecotourism” held at Department of Botany, University of Science and Technology Bannu, KP, Pakistan (December 11-13, 2017)
7. 7th International & 16th National conference on *Plant Resources: Current Trends, Challenges and Solutions* held on 23-26 March 2018 at Islamia College Peshawar, Pakistan.
8. 2nd International workshop on *Digitization of Herbaria & Botanical Resources in Pakistan* (March 26, 2018) held at Islamia College Peshawar, Pakistan.
9. 5 days International conference on *Digitization & Documentation of Plant natural resources in Chitral*, Pakistan held at University of Chitral, Pakistan (29 March-2nd April 2018).

10. 2 days training workshop on Digitization: *Georeferencing and Mobilization of plant occurrence data from Pakistan* held at Quaid-I-Azam University, Islamabad, Pakistan (7-8 April, 2018)
11. 3 days National workshop on “*DNA fingerprinting: principles and techniques*” held at Islamia College University Peshawar.
12. 3 days international conference on “*Climate Change Impacts on Agriculture and Food Supply*” organized by Department of Agriculture, University of Swabi held at University of Swabi, KP, Pakistan (April 24-26, 2018).
13. 2 days National conference on “*Plants: From Food To Phytomedicine*” jointly organized by University of Malakand & University of Sargodha held at University of Malakand (May 3-4, 2018)
14. HEC 8th National conference on “*Biodiversity conservation in Pakistan: Challenges and Solution*” held at Bara Gali Summer Campus, University of Peshawar (July 8-10, 2018).
15. 2 days National conference on “*Beneficial Microbes & Sustainable Crop Production*” held on February 19-20, 2020 organized by Department of Agronomy, The University of Agriculture Peshawar in collaboration with *American Society of Microbiology (ASM)*.
16. One-day online Zoom Webinar Tutorial on References Formatting, “*Manually and Through Software’s*” on 1st June 2020 organized by Plants Educational Forum.
17. One-day International Online seminar on “*Nature for Life Solutions*” on the Eve of International Biodiversity Day on 3rd June, 2020 organized by Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi.
18. One day International online Symposium on “*Cultural Heritage and Human Resilience in Desert Environment*” on 17th June 2020 organized by Department of Botany, Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi.
19. One-day International Online seminar on “*Biodiversity for Sustaining Life*” on the Eve of World Environment day on 5th July 2020 organized by Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi.
20. 3rd International conference on Chemistry (ICC)-Virtual “*Innovative Challenges in the Field of Molecular & Chemical Sciences*” held on 21-22 September, 2020 organized by Lahore Garrison University, Lahore.

21. One-day workshop on Climate Change Resilience and Sustainable Development in Pakistan on 07 October, 2020 organized by Directorate of Youth Affairs, Government of Khyber Pakhtunkhwa.
22. Fourth International Conference on Biosciences (ICBS-2021) Organized by Biological Society of Pakistan (BSP) in Collaboration with Department of Plant Sciences, Quaid-i-Azam University, Islamabad on 15th June 2021.
23. AASSA-PAS 2021, Webinar- II “Pandemic Preparedness, One Health: Lessons Learnt” held on May 04, 2021 Organized by Pakistan Academy of Sciences, Islamabad.
24. Arboricultural Association online learning webinar: Plant Healthy on 4 August, 2021 London.
25. 2021 Ecology and Evolutionary Biology Symposium, Turkey organized by College of Sciences, Koç Üniversitesi, Rumelifeneri, Sarıyer Rumeli Feneri Yolu, 34450 Sarıyer/İstanbul, Turkey. (August)
26. Three days National conference on “Threats to Biodiversity and Ecosystems: Efforts to resolve current and future challenges” organized by Department of Botany, University of Science and Technology, Bannu, KP, Pakistan (26-28 November, 2018).
27. 5 days International conference on food security through sustainable plant protection strategies (January 16-20, 2022) organized by Department of Plant Protection, The University of Agriculture, Peshawar.
28. Two-day workshop on “Quantitative Methods for Population Dynamics in R” conducted on 21-22 March 2022 online organized by Centre d’Ecologie Fonctionnelle et Evolutive, Montpellier, France.
29. Two-day International Conference on “Recent approaches in Plant Sciences” (RAPS-2022) Organized by Department of Botany, University of Education, Lahore, Pakistan (March 30-31, 2022)
30. One-day online Webinar on “Hazardous Materials: Spills & Soil Contamination” organized by The Institute of Fire Safety Managers, Dunston Innovation Centre, United Kingdom (20/04/2022)
31. One-day online webinar on “Carbonyl-Based electrode materials for rechargeable Lithium-ion batteries and super capacitor” (23 May, 2022) organized by Institute of Chemical Sciences, University of Swat, Pakistan.

32. 5th International conference on: “Advances in Biosciences: Bridging the gap between research and sustainable development goals” (May24-26, 2022) organized by Center for Plant Sciences & Biodiversity, University of Swat in collaboration with Biological Society of Pakistan, Pakistan Science Foundation, Higher Education Commission, Pakistan.
33. 9th National conference on “Biodiversity, Climate Change and Carbon Sequestration” held at Baragali Summer Campus (June 21-23, 2022), organized by Centre of Plant Biodiversity, University of Peshawar, Higher Education Commission Pakistan and SSC.
34. One day training course on “Class Room Management” held on 25th November 2022 at A.U.P.S & C (Boys), The University of Agriculture Peshawar.
35. One day Training Workshop on “Health, Safety, Environment and Biodiversity” held on November 29, 2022 Jointly organized by Centre of Plant Biodiversity, University of Peshawar and Safety Standards Consultants Pakistan.
36. 2 days International Conference & Workshop on “Dengue Infection in Emerging Threat due to Recent Floods Emergency and Climate Change; Are we Prepared?” held on 14-15 November 2022 organized by Department of Zoology, Quaid-i-Azam University, Islamabad Pakistan.
37. 3 days ANSO-PAS-MAAP Conference on “Epidemic and Pandemic Preparedness” held on 5-7 December 2022, Organized by Pakistan Academy of Sciences (PAS), Alliance of International Science Organization (ANSO), and Monbukagakusho-MEXT Association of Pakistan (MAAP).
38. One day “Universiti Malaya Academia-Community Engagement (UMACE) International Symposium 2022” held on 21ST December 2022, organized by Universiti Malaya.

RESEARCH PROFILE's:

Google Scholar: <https://scholar.google.co.uk/citations?user=z6o7vDMAAAAJ&hl=en>

Web of Science/Publons: <https://publons.com/dashboard/records/publication/authored/>

ORCID: <https://orcid.org/my-orcid>

Scopus: <https://www.scopus.com/dashboard.uri>

ScienceDirect: <https://id.elsevier.com/settings/redirect?code=5MF672rJzHnYhQLBlfv4ikSHWL5ohcncpog0P2Kv>

Mendeley: <https://www.mendeley.com/profiles/muhammad-nauman-khan3/>

PUBLICATIONS:

Articles published in International Journals/ impact factor:	32
Articles published in National Journals:	23
Book Chapters:	01

Total:	56
Total Impact Factor:	79.51
Total citation (google scholar):	326
h-index:	12
i10-index:	14

ARTICLES PUBLISHED IN INTERNATIONAL JOURNALS/ IMPACT FACTOR/

ISI:

1. Khan. R., **Khan, M. N.**, Ullah, H., Basit, A., Razzaq, A., Ahmad, M & Ozdemir, F. A. (2018). A comparative assessment of proximate and elemental composition six weedy grasses for their potential use as fodder. *Progress in Nutrition*, 20(1-S), 182-190. (IF=0.538).
2. **Khan. M. N.**, & Badshah, L. (2019). Floristic diversity and utility of flora of district Charsadda, Khyber Pakhtunkhwa. *Acta Ecologica Sinica*. 39(4): 306-320. (IF=1.414).
3. Shah S. N., M. Ahmad, M. Zafar, F. Hadi, **M. N. Khan**, A. Noor, K. Malik, N. Rashid, A. Kamal and M. Iqbal (2020) Spore morphology and leaf epidermal anatomy as a taxonomic source in the identification of *Asplenium* species from Malakand division Pakistan. *Microsc Res Tech*. 83(11): 1354-1368. (IF=2.769).
4. Hamayun M, N. Khan, **M. N. Khan**, M. Qadir, A. Hussain, A. Iqbal, S. A. Khan, K. U. Rehman, I. J. Lee (2021) "Antimicrobial and plant growth-promoting activities of bacterial endophytes isolated from *Calotropis procera*" *Biocell* 45(2); 363-369. (IF=2.821).
5. Shah, S. N., M. Ahmad, M. Zafar, F. Hadi, **M. N. Khan**, A. Noor, K. Malik, N. Rashid, A. Kamal, M. Iqbal, M. Hussain (2021) "Application of spore morphology to solve identification problems in certain species of family Dryopteridaceae from Malakand Division, Pakistan. *Microsc Res Tech*. 84(8): 1897-1910. (IF=2.769).
6. Shah, W., S. Ullah, S. Ali, M. Idrees, **M. N. Khan**, K. Ali, A. Khan, M. Ali, F. Younas (2021) "Effect of exogenously applied alpha-tocopherol on vital agronomic, physiological and biochemical attributes of Lentil (*Lens culinaris* Medik.) under induced drought stress" *PLoS ONE* 16(8): e0248200. (IF=3.24).

7. Shakir, UU., S. Ullah, **M. N. Khan**, S. Ali, U. Ali, A. Zaman, S. A. Razak, F. A. Ozdemir (2022) “Effect of Thermopriming and Alpha-Tocopherol Spray in *Triticum aestivum* L. Under Induced Drought Stress: A Future Perspective of Climate Change in the Region” *Sains Malaysiana* 51(4): 977-991 (IF=1.1).
8. Shah, S. N., A. Zaman, I. U. Din, F.U. Khan, **M. N. Khan**, M. Iqbal (2022). Spore morphology and its taxonomic consideration in some selected species of Pteridaceae from Malakand Division, Pakistan *Microsc Res Tech* (under review). **XX-XX**. (IF=2.769).
9. **Khan, M. N.**, S. Ali, S. A. Razak, A. Zaman, M. Iqbal, S. N. Shah (2022). “Assessment of floristic diversity in the mountain ecosystem of Marghazar Valley, Hindukush Range, Swat, Pakistan” *Biodiversitas* 23(2): 1000-1013. (IF=1.05).
10. Saeed, S., Abd Ullah, Sami Ullah, J. Noor, B. Ali, **M. N. Khan**, M. Hashem, Y. S. Mostafa, S. Alamri (2022). “Validating the Impact of Water Potential and Temperature on Seed Germination of Wheat (*Triticum aestivum* L.) via Hydrothermal Time Model” *Life* 12(7):983 (IF=3.251).
11. Nisa, B., F. Ullah, I. Nisa, M. Ahmad, M. Zafar, M. Munir, S. Sultana, W. Zaman, H. Manghwar, F. Ullah, **M. N. Khan**, D. O. El-Ansary, H.O Elansary (2022) “Biodiesel Production Using Wild Apricot (*Prunus aitchisonii*) Seed Oil via Heterogeneous Catalysts” *Molecules*, 27:4752 (IF=4.927).
12. Bibi, S., S. Ullah, A. Hafeez, **M. N. Khan**, M. A. Javed, B. Ali, I. U. Din, S. A. K. Bangash, S. Wahab, N. Wahid, F. Zaman, S. K. Alhag, I. H. A Abd El-Rahim, A. E. Ahmed, S. Selim(2022) “Exogenous Ca/Mg Quotient Reduces the Inhibitory Effects of PEG Induced Osmotic Stress on *Avena sativa* L.” *Brazilian Journal of Biology* 84: e264642, (IF=1.36).
13. Faryal, S., R. Ullah, **M. N. Khan**, B. Ali, A. Hafeez, M. Jaremko, K. A. Qureshi (2022). “Thiourea-Capped Nanoapatites Amplify Osmotic Stress Tolerance in *Zea mays* L. by Conserving Photosynthetic Pigments, Osmolytes Biosynthesis and Antioxidant Biosystems” *Molecules*, 27, 5744. (IF=4.927).
14. Ma, J., S. Ali, M. H. Saleem, S. Mumtaz, G. Yaseen, B. Ali, A. A. Al-Ghamdi, M. S. Elsheikh, C. C. Muresan, R. A. Marc, A. Rehman, **M. N. Khan**, S. Ali (2022) “Short-term responses of Spinach (*Spinacia oleracea* L.) to the individual and combinatorial effects of NPK and silicon in the soil contaminated by boron” *Frontiers in Plant Science*, 13: 983156 (IF=6.627).

15. Naz, Reshman., M. S. Khan, A. Hafeez, M. Fazil, **M. N. Khan**, B. Ali, M. A. Javed, M. Imran, A. A. Shati, M. Y. Alfaifi, S. E. I. Elbehairi, A. E. Ahmed (2022) "Assessment of phytoremediation potential of native plant species naturally growing in a heavy metal-polluted industrial soils" *Brazilian Journal of Biology* 84: e264473, (IF=1.36).
16. Ali, S., S. Ullah, **M. N. Khan**, W. M. Khan, S. A. Razak, S. Wahab, A. Hafeez, S. A. K. Bangash, P. Pocza (2022) "The Effects of Osmosis and Thermo-Priming on Salinity Stress Tolerance in *Vigna radiata* L. *Sustainability* 14 (19): 12924. (IF=3.889).
17. Tahir, O., S.A.K. Bangash, M. Ibrahim, S. Shahab, S.H. Khattak, I.U. Din, **M.N. Khan**, A. Hafeez, S. Wahab, B. Ali, R.M. Makki, S. Harakeh (2023) "Evaluation of Agronomic Performance and Genetic Diversity Analysis Using Simple Sequence Repeats Markers in Selected Wheat Lines". *Sustainability* 15, 293. (IF=3.889).
18. **Khan, M.N.**, D. Ahmad, H. Arif, S. Wahab, S. Iqbal, F. Zaman, M. Bibi, F. Mabood, S. A. Razak, A. Ali, F. A. Ozdemir (2023) "Role of Mycorrhizae in Nutrient Acquisition in Relation to NPK Fertilizers: A Review" *Journal of Xi'an Shiyu University* 19(1): 599-604. (IF=0.38).
19. Tariq, M., B. Ullah, **M. N. Khan**, A. Ali, K. Hussain (2023) "*Skimmia lareoula* fractions via TLR-4 /COX2 /IL-1 β rescues adult mice against Alloxan induced hyperglycemia induced synaptic and memory dysfunction" *Journal of Xi'an Shiyu University* 19(1): 818-829. (IF=0.38).
20. Isa, N., S. A. Razak, R. Abdullah, **M. N. Khan**, S. N. Hamzah, A. Kaplan, H. O. Dossou-Yovo, B. Ali, A. Razzaq, S. Wahab, I. Ullah, M. A. El-Sheikh, R. A. Marc (2023) "Relationship between the floristic composition and soil characteristics of a Tropical Rainforest (TRF)" *Forests* 14:(306) (IF=3.282).
21. Ahmad, D., N. Ahmad, K. Ullah, J. Akbar, M. Q. Nasar, A. Zaman, Barkatullah, **M. N. Khan**, A. Ali, A. Kaplan, F. A. Ozdemir (2023) "In-vitro callogenesis and multiple shoot formation of *Rauvolfia serpentina* (L.) Benth." *Journal of Xi'an Shiyu University* 19(1): 1482-1486. (IF=0.38).
22. Javed, M., S.A.K. Bangash, M. Abbas, S. Ahmed, A. Kaplan, S. Iqbal, **M. N. Khan**, M. Adnan, A. Ali, F. Zaman, S. Wahab (2023) "Potential and Challenges in Green Synthesis of Nanoparticles: A Review" *Journal of Xi'an Shiyu University* 19(2): 1155-1165. (IF=0.38).

23. Hayat, K., W. M. Khan, **M. N. Khan**, S. N. Shah (2023) "Pollen morphological investigation of selected species of family Asteraceae from Pakistan by using light and scanning electron microscopy" *Microsc Res Tech.* 1–16. (IF=2.893).
24. Ibrahim, M., S. Ahmad, S.A.K. Bangash, I. Alam, A. Sultana, M. Abbas, **M. N. Khan**, Israil, S. Sultana (2023) "Sheep breeds raised under a subtropical environment revealed differential disease patterns and DNA damage" *Journal of Xi'an Shiyu University* 19(3): 460-466. (IF=0.38).
25. Haq, T.U., R. Ullah, **M. N. Khan**, M. Nazish, S. M. Almutairi, R. A. Rasheed (2023) "Seed priming with glutamic-acid-functionalized iron nanoparticles modulating response of *Vigna radiata* (L.) R. Wilczek (Mung Bean) to induce osmotic stress" *Micromachines* 14, 736. (IF=3.523).
26. Fazil, M., S. Jan, S. Sultana, R. Naz, A. Kaplan, M. Iqbal, **M. N. Khan**, M. Adnan, R. Aziz, S. A. K. Bangash, M. Bibi, S. Wahab (2023) "Phytoremediation potential and implication of nickel of plant species of Mardan Industrial Estate" *Journal of Xi'an Shiyu University* 19(4): 12-20. (IF=0.38).
27. Ullah, R., S. Bibi, **M. N. Khan**, A. M. Al Mohaimeed, Q. Naz (2023) "Application of Bio-Inspired Gold Nanoparticles as Advanced Nanomaterial in Halt Nociceptive Pathway and Hepatotoxicity via Triggering Antioxidation System" *Catalysts*, 13, 786. (IF=4.501).
28. Shah, S., S. M. Shah, A. Ullah, U. Ali, **M. N. Khan**, S. Sultana, M. Çetin (2023). "Light and Scanning Electron Microscopic Investigation of Selected Taxa of Fabaceae and its Utilization for Taxonomic Classification" *Journal of Xi'an Shiyu University* 19(5): 262-272. (IF=0.38).
29. Shah, N. A., S. Ullah, M. Nafees, & **M. N. Khan** (2023). "Exogenous Effect of Sugar Beet Extract On Physio-biochemical Traits of *Hordeum vulgare* L. Under Induced Salinity Stress". *Gesunde Pflanzen*, 1-13. (IF=2.082).
30. Ameen, F., S. Mumtaz, B. Ali, I. Hussain, A. Hafeez, A. Gul, M. M. Elsharkawy, T. A. Hashim, G. Yaseen, **M. N. Khan**, I. Ali, S. M. Eldin, M. A. Rashwan, H. O. Elansary and S. Ali (2023) "The impact of Cu-polluted and organic soil on the fibrous plant; insights into plant growth promotion, antioxidant defences system, and oxidative stress" *Functional Plant Biology* (IF=2.81).
31. Ullah, S., M. I. Khan, **M. N. Khan**, U. Ali, B. Ali, R. Iqbal, Abdel-Rhman Z Gaafar, Bandar M. AlMunqedhi, S. A. Razak, A. Kaplan, S. Ercisli, F. A. Soudy (2023). "Efficacy of Naphthyl Acetic Acid Foliar Spray in Moderating Drought Effects on the

Morphological and Physiological Traits of Maize Plants (*Zea mays* L.)” ACS omega. (IF=4.132).

32. Ajmal, M., R. Ullah, Z. Muhammad, **M. N. Khan**, H.A. Kakar, A. Kaplan, M. K. Okla, I. A. Saleh, A. Kamal, A. Abdullah, S. A. Razak (2023). “Kinetin Capped Zinc Oxide Nanoparticles Improve Plant Growth and Ameliorate Resistivity to Polyethylene Glycol (PEG)-Induced Drought Stress in *Vigna radiata* (L.) R. Wilczek (Mung Bean)”. *Molecules*, 28, 5059. (IF=4.927).

ARTICLES PUBLISHED IN NATIONAL JOURNALS:

33. **Khan M. N.**, F. Hadi, A. Razaq and S. M. Shah (2017). Utilitarian aspects of weeds and their ecological characteristics in Ochawala valley, District Charsadda, Pakistan *APRN J. Agric & Biol. Sci.* 12(5):182-189.
34. **Khan M. N.**, N. Khan, F. Hadi, S. M. Shah and A. Razzaq (2018). Ecology Of Riparian Vegetation Of Lund Khuwar, District Mardan, KP, Pakistan. *Nat Prod Ind J.* 14(1):119.
35. **Khan M. N.**, F. Hadi, M. Bibi, N. Khan and S. M. Shah. 2019. Utilitarian aspects of weeds of wheat fields in Charbagh valley district Swat Pakistan. *Pak. J. Weed Sci. Res.* 25 (1):37-48
36. **Khan M. N.**, A. Razaq, F. Hadi, N. Khan, A. Basit, F. U. Jan and N. Khan 2018 Ethnobotanical Profile of Weed Flora of District Charsadda, Khyber Pakhtunkhwa *RADS J. Biol . Res. Appl . Sci* Vol 9 (1): 14-23.
37. **Khan M. N.**, S. Ali, H. Akram, F.U. Jan, I. U. Haq, S. M. Shah, M. Adnan, S. M. Hanif, A. N. Siddique (2019). Elemental analysis of five selected grasses of sub family Pooideae from University of Peshawar Campus, KP, Pakistan. *Pure and Applied Biology (PAB)*, 8(2): 1296-1306.
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1. “Some Pollutants to Defeat to get Clean Drinking Water” in ***American Journal of Biomedical Science & Research***
2. “Pollination Ecology of *Rhynchosia minima* (L.) DC. (Fabaceae), A Prostrate Climbing Herb in the Southern Eastern Ghats, Andhra Pradesh, India” in ***Ecologia Balkanica***
3. “Screening and biochemical identification of tef (*Eragrostis tef* Zucc. Trotter) endophytic bacterial species with plant-growth-promoting (PGP) and bio-control activity for bioinoculum development” with manuscript no JBR/19.12.19/0303 in ***Journal of Bacteriology Research***.
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BS RESEARCH:

Thesis entitled as “Biodiversity and Ethnobotany of Flora of District Charsadda, KP, Pakistan”

B.E.D RESEARCH PROJECT:

Thesis entitled as “Factors Affecting Reading Skills of Students at Secondary Level in Hajizai (Shabqadar)”

M.PHIL RESEARCH:

Thesis entitled as “Phytodiversity and Ethnobotanical Appraisal of Plants of Marghazar Valley, District Swat, Pakistan”

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