# Academic Curriculum Vitae

## Personal Information:

Full Name: SIRWA ANWAR QADIR
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## Education:

- (2017) Awarded Ph.D. in Plant Physiology split-site inter ship Ph.D. (Universiti Teknologi Malaysia- Malaysia/ Salahaddin University- Erbil Iraq)
- (2006) M.Sc. in Plant Physiology, Dept. of Biology, College of Education, University of Salahaddin - Erbil, Iraq.
- (1999) Awarded B.Sc. in Biology, Dept. of Biology, College of Science, University of Salahaddin - Erbil, Iraq.
- (1995) Baccalaureate, Science Branch, Ronakey Secondary School, Erbil, Iraq.

## Employment:

- From 2000 to 2003 I worked as Lab assistant at Botany and entomology Lab.
- From 2003 to 2006 I was M.Sc. student at Biology Dept. / Education College.
- Since 2006 Lecturer till 2008 at Plant Protection Dept., College of Agriculture, University of Salahaddin – Erbil, Iraq.
- from 2008 till 2016 Lecturer at Department of Horticulture, College of Agriculture, University of Salahaddin – Erbil, Iraq.
- From 2017 to 2018; Part time Lecturer at Education College, Biology Dept., Ishik University- Erbil- Iraq.

- Currently I work as a full time Assistant professor at Department of Forestry, College of Agricultural Engineering Sciences, Salahaddin University- Erbil, Iraq.

# Qualifications

- Language qualifications (IELTS)
- Professional qualifications:
    1. STATISTICS AND STATISTICAL DATA ANALYSIS USING SPSS AND GRAPHPAD PRISM/ Department of Mathematics College of Science, Salahaddin University- Erbil- Iraq /. 10th to 14th March-2019.
    2. LEARNING MANAGEMENT SYSTEM- MOODLE/ research center, Salahaddin University- Erbil, Iraq. 27th to 31st March 2019.
    3. ELSEVEVIER AUTHOR WORKSHOP 2016: HOW TO GET PUBLISHED. 18th February 2016.
    4. "BASIC TECHNIQUES IN PLANT TISSUE CULTURE AND TECHNOLOGY WORK SHOP 2015" 21st -22nd December-2015 at Faculty of Bioscience and Medical Engineering/ Universiti Teknologi Malaysia/ Johour Barouh/ Malaysia.
    5. Teaching Method training/ Presidency of Salahaddin University on 16th September to 5th October-2006.
    6. Computer training (M.S Word, Excel & Power point). Agriculture College. 10th to 30th October-2001.
    7. Value chain design and post-harvest logistics' Online course. As part of the Nuffic OKP TMT+ project entitled "Modern and Climate Smart Farming and Water Management for Selected Supply Chains in Iraq. November 23- December 22, 2022.

# Editorial Experience:

Currently I'm working as a Section Editor in Zanko Journal of Pure and Applied Sciences (ZJPAS) at Salahaddin University- Erbil- Iraq. https://zancojournal.su.edu.krd/index.php/JPAS/about/editorialTeam

- Responsible for overseeing the peer-review process and editorial decisions within Botany field.
- Ensure the quality and integrity of published research by collaborating with reviewers and authors.
- Contribute to the strategic development of the journal by maintaining high academic standards.

# Teaching experience:

- Teaching the following courses for undergraduate students:
  1. General Botany
  2. Principles of Plant Physiology
  3. Forest Trees Physiology
  4. Research Methods
  5. Forest Biotechnology
  6. Nurseries and Tree Propagation
  7. Design of Experiment and Analysis.
  8. Statistics.

Teaching the following advanced courses for M.SC and PHD students:

1. Advanced Trees Physiology.
2. Plant resilience.
3. Data Analysis
4. Plant stress physiology
5. Root physiology.
6. Plant growth regulator.
7. Data analysis.
8. Phytohormones.

# Research and publications

1. Seed Treatment with Pseudomonas fluorescens and Aspergillus flavus Enhances Rice Growth and Suppresses Bacterial Blight Caused by Xanthomonas oryzae pv. Oryzae. https://doi.org/10.1111/jph.70189

2. Evaluation of drought resilience of two Kurdish rice genotypes induced by polyethylene glycol (PEG-8000) at the early growth stage. https://doi.org/10.25081/jaa.2025.v11.9603.

3. Evaluating the Allelopathic Effects of Salvia rosmarinus on Selected Weeds and Triticum aestivum L. https://doi.org/10.33794/qjas.2025.158290.1198

4. Ahmed, A.A., Tahir, N.A.R. and Qadir, S.A., 2025. Nutrient Dynamics in Oak Forests of Iraqi Kurdistan due to Altitudinal and Geospatial Influences. *Passer Journal of Basic and Applied Sciences*, *7*(1), pp.114-120. http://dx.doi.org/10.24271/psr.2025.490646.1830

5. Mahmood, S.H., Qadir, S.A., Mohammed, E.A., Fathulla, C.N. and Ahmed, A.A., 2024. Effect of Organic Fertilizer on Growth and Physiology of Brachychiton populneus (Schott& Endl) Seedlings under Drought

Conditions. *Zanco Journal of Pure and Applied Sciences*, *36*(6), pp.87-95. http://dx.doi.org/10.21271/ZJPAS.36.6.10.

6. Sulaiman Rashid, T., Kazm Mahmud, K., Kakakhan Awla, H. and Anwar Qadir, S., 2024. Tomato Seed Treatment and Germination Responses to Selected Plant Extracts. *Journal of Crop Health*, *76*(5), pp.1137-1146. https://doi.org/10.1007/s10343-024-01015-6

7. Qadir, S.A., Fathulla, C.N. and Amin, S.A., 2024. Influence of Zinc Oxide Nano Spray on the Growth and Development of Bryophyllum pinnatum. *Polytechnic Journal*, *13*(1), p.23. https://doi.org/10.59341/2707-7799.1836

8. Qadir, S.A. and Fathulla, C.N., 2024. Physiological and anatomical responses of common bean (phaseolus vulgaris l.) to nickle nanoparticles foliar spray. *Iraqi Journal of Agricultural Sciences*, *55*(Special), pp.80-89. https://doi.org/10.36103/ijas.v55iSpecial.1887

9. Ahmed, A.A., Tofiq, G.S., Qadir, N.J. and Qadir, S.A., 2023, May. The role of CRISPR/Cas9 in postharvest, biotic, and abiotic stress. In *VII International Conference Postharvest Unlimited 1396* (pp. 67-72). https://doi.org/10.17660/ActaHortic.2024.1396.10
10.

11. Muhammad, M.Q., Khursheed, M.Q. and Qadir, S.A., 2023. Response of Some Bread Wheat Genotypes (Triticum aestivum L.) to Salinity at Early Growth Stage. *Zanco Journal of Pure and Applied Sciences*, *35*(2), pp.173-180. http://dx.doi.org/10.21271/ZJPAS.35.2.18

12. Fathulla, C.N., Qadir, S.A. and Abdulkerim, S., 2023. Bryophyllum pinnatum Growth Response to Nickle Nanoparticles Foliar Spray. *Al-Qadisiyah Journal For Agriculture Sciences*, *13*(2). https://doi.org/10.33794/qjas.2023.143346.1142

13. Muhammad, M. Q., Khursheed, M. Q., & Anwar, S. (2022). Response of Durum Wheat (Triticum durum L.) Genotypes to Drought stress at Early Growth Stage. https://doi.org/10.33794/qjas.2022.134718.1060

14. Ahmed, A. A., Qadir, S. A., & Tahir, N. A. R. (2022). Genetic Variation and Structure Analysis of Iraqi Valonia Oak (Quercus aegilops L.) Populations Using Conserved DNA-Derived Polymorphism and Inter-Simple Sequence Repeats Markers. *Plant Molecular Biology Reporter*, 1-14. https://doi.org/10.1007/s11105-022-01347-5

15. Alaaddin Ahmed, A., Anwar Qadir, S., & Tahir, N. A. R. (2022). CDDP and ISSR markers-assisted diversity and structure analysis in Iraqi Mazu (Quercus infectoria Oliv.) accessions. *All Life*, *15*(1), 247-261. https://doi.org/10.1080/26895293.2022.2042401

16. Qadir, S.A., Sabr, H.A. and Younis, A.M., 2022. Growth Performance of Black poplar (Populus nigra L.) Under Drought Condition and Sewage Water Irrigation. *Basrah Journal of Agricultural Sciences*, *35*(1), pp.21-34. https://doi.org/10.37077/25200860.2022.35.1.02

17. Qadir, S.A., 2021. INFLUENCE OF DIFFERENT SEED PRIMING TECHNIQUES ON THE GROWTH AND VIGOR OF TWO (TRITICUM AESTIVUM L.) BREAD WHEAT GENOTYPES. *Plant Archives*, *21*(1), pp.1751-1756. https://scispace.com/pdf/influence-of-different-seed-priming-techniques-on-the-growth-2lhf95izry.pdf.

18. RASHID, T.S., QADIR, S.A. and AWLA, H.K., 2021. Induction of defence related enzymes and biocontrol efficacy of Trichoderma harzianum in tomato plants infected with Fusarium oxysporum and Fusarium solani. *Acta agriculturae Slovenica*, *117*(1), pp.1-6. http://ojs.aas.bf.uni-lj.si/index.php/AAS/article/view/1622

19. Karim, S.A., Qadir, S.A. and Sabr, H.A., 2020. Study some of morphological and physiological traits of Kurrajong *Brachychiton populneus* (Schott & Endl.) seedlings planted under water stress conditions. Basrah J. Agric. Sci., 33(1), pp.213-220. https://doi.org/10.37077/25200860.2020.33.1.16

20. Qadir, S. (2019). Wheat Grains Germination and Seedling Growth Performance under Drought Condition. *Basrah Journal of Agricultural Sciences*, 31(2), 44-52. https://doi.org/10.37077/25200860.2018.99

21. Qadir, S.A., 2019. ABSCISIC ACID ACCUMULATION AND PHYSIOLOGICAL INDICES IN RESPONSES TO DROUGHT STRESS IN WHEAT GENOTYPES. *Iraqi Journal of Agricultural Science*, 50(2), pp.705-712. https://www.iasj.net/iasj/download/3e59f7962c28a65e

22. Qadir, S. A., Khursheed, M. Q., & Huyop, F. Z. (2017). Drought Tolerance and Genetic Diversity among Selected Wheat Cultivars. *ZANCO Journal of Pure and Applied Science*, 29 (3); 110-117. https://www.researchgate.net/publication/317168625_Drought_Tolerance_and_Genetic_Diversity_among_Selected_Wheat_Cultivars

23. Qadir, S. A., Khursheed, M. Q., & Huyop, F. Z. (2016). In vitro culture characters of some Bread wheat genotypes under Drought stress condition. *Journal of Agricultural Faculty of Uludag University*, 30, Number (Special Issue); 11-16. https://www.cabidigitallibrary.org/doi/pdf/10.5555/20173246037

24. Qadir, S. A., Khursheed, M. Q., & Huyop, F. Z. (2016). Effect of Drought Stress on Morphology, Growth and Yield of Six Bread Wheat (Triticum aestivum L.) Cultivars. *ZANCO Journal of Pure and Applied Sciences*, *28*(3), 37-48.
http://zancojournals.su.edu.krd/index.php/JPAS/article/view/906

25. Muhammad, M. Q., Khursheed, M. Q., & Qadir, S. A. (2023). Response of Some Bread Wheat Genotypes (Triticum aestivum L.) to Salinity at Early Growth Stage. Zanco Journal of Pure and Applied Sciences, 35(2), 173-180.
https://doi.org/10.21271/ZJPAS.35.2.18

**Book Chapter:**

Qadir, S. A., Khursheed, M. Q. (2016). Molecular Characterization of Bread Wheat Cultivar for Drought Tolerance using RAPD. Huyop F. Z. *Plant Biotechnology "Sustainable Solution for the Future*". Universiti Teknologi Malaysia.

## Conferences and courses attended

- 27th INTERNATIONAL SCIENTIFIC-EXPERT CONGRESS OF AGRICULTURE AND FOOD INDUSTRY/ Uludagh University Bursa /Turkey. 26th to 28th SEPTEMBER-2016.
- Exhibitor for Salahaddin University for "UTM STUDY ABROAD FAIR 2016" (SAF 2016) on 6th March to 7th March-2016.

## Professional Social Network Accounts:

- https://scholar.google.com/citations?hl=en&user=_c7a-BcAAAAJ&view_op=list_works&citft=1&citft=2&citft=3&email_for_op=sirwa.qadir77%0gmail.com&gmla=AJsNF5_n4dXMsvPuQGY16f9drUx3yVa2nlxBPx1DSSjGGzN1th2ftKH73GYxSDWd0ngIKnZJ1t6J7MeSk_dd82FurqAeu6toMBHdYWIbHMmNBstHD9Dp5FiXs9pTcJ7Zioq261PPNYVjT31IWKDg5u6zJ8oM4nM53wQMasXaD58VUjS1tVscpMz9ZM0XYE24p_Hh8BaXgW0HPgHaS4D5b4_2Xo6c6OF8qntpmC617tIEnL-omYZpPCPk7RSga9EcHU11

- https://www.researchgate.net/profile/Sirwa-Qadir
- https://orcid.org/0000-0001-8012-5580
- https://www.linkedin.com/in/sirwa-qadir-257150101
- https://www.scopus.com/authid/detail.uri?authorId=57212938040
- https://www.webofscience.com/wos/author/record/PNG-3719-2026

**Supervising post graduate students:**

1. Aven Alaaddin Ahmed (2022). Phenotypic, Allelopathic and Genetic Diversity of Oak (*Quercus spp.*) Forests in Iraqi Kurdistan Region. Master thesis.

2. Dilan Mohammed Azezz Saleem (2026). Green-Synthesized ZnO Nanoparticles Enhancing Drought Tolerance in *Quercus brantii* Lindl. and *Quercus infectoria* G. Olivier Seedlings. Master thesis.

3. Bushra Agha Qadir (2026). Green Synthesis of ZnO Nanoparticles from Morus Species Leaves and Their Foliar Application to Enhance Phytoremediation of Lead and Chromium. Master thesis.