

CURRICULUM VITAE

PERSONAL DATA

Name	Mahmoud Ali Abed Al-Qudah
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EDUCATION

Year	Academic Degree	Institution
2003-2008	PhD in Organic Chemistry	Department of Chemistry, University of Jordan, Amman, Jordan
1996-1998	MSc in Chemistry	Department of Chemistry, Yarmouk University, Irbid, Jordan
1992-1996	BSc in General Chemistry	Department of Chemistry, Yarmouk University, Irbid, Jordan

WORK EXPERIENCE

Period	Position	Address
2022- now	Professor	Department of Chemistry, Imam Mohammad Ibn Saud Islamic University (IMSIU), Riyadh, Saudi Arabia
2019 -2022	Professor	Department of Chemistry, Yarmouk University, Irbid, Jordan
2016 - 2018	Chairman Department of Chemistry	Chairman Department of Chemistry
2015 - 2019	Associate professor	Department of Chemistry, Yarmouk University, Irbid, Jordan
2014 – 2015	Dean Assistant	Faculty of Science, Yarmouk University, Irbid, Jordan.

2011 - 2015	Assistant professor	Department of Chemistry, Yarmouk University, Irbid, Jordan.
2009 – 2011	Lecturer	Department of Chemistry, Yarmouk University, Irbid, Jordan

RESEARCH INTERESTS

- **Phytochemistry:** Extraction, isolation, and purification of secondary metabolites from higher plants using chromatographic and hyphenated techniques and compound identification by spectroscopic methods.
- **Essential oil:** Identification of the chemical composition of the essential oils from plants by using GC/MS.
- **Evaluation of biological activities:** *in vitro* and *in vivo* biological assays of plant extracts, essential oil, fractions, and secondary metabolites.
- **Corrosion:** Study on the Effect of crudes of plants and Organic compounds on the Corrosion of the metals

PUBLICATIONS

1. Odeh, A. A., Al-Jaber, H. I., Barhoumi, L. M., Shakya, A. K., Al-Qudah, M. A., & Sanabra, O. (2023). Phytochemical and bioactivity evaluation of secondary metabolites and essential oils of *Sedum rubens* growing wild in Jordan. *Arabian Journal of Chemistry*, 16(6),104712.
2. Shaaban, Saad, Aly Abdou, Abdulrahman G. Alhamzani, Mortaga M. Abou-Krishna, Mahmoud A. Al-Qudah, Mohamed Alaasar, Ibrahim Youssef, and Tarek A. Yousef. 2023. "Synthesis and in Silico Investigation of Organoselenium-Clubbed Schiff Bases as Potential M^{pro} Inhibitors for the SARS-CoV-2 Replication" *Life* 13, no. 4: 912. <https://doi.org/10.3390/life13040912>.
3. Mahmoud A. Al-Qudah, Zahra M. Al-Smadi, Hala I. Al-Jaber, Hasan I. Tashtoush, Rami Q. Alkhatib, Sultan T. Abu Orabi, GC/MS and LC-MS/MS phytochemical evaluation of the essential oil and selected secondary metabolites of *Ajuga orientalis* from Jordan and its antioxidant activity, *Arabian Journal of Chemistry*, <https://doi.org/10.1016/j.arabjc.2023.104641>
4. Abdulrahman G. Alhamzani, Zahra M. Al-Smadi², Hala I. Al-Jaber, Hasan I. Tashtoush², Sultan T. Abu Orabi, Mahmoud A. Al-Qudah, New Flavonoid Isolated from the Aerial Parts of *Ajuga Orientalis* L. *Phytochemistry Letters*
5. Nezar Al-Bataineh, Faisal K. Algethami, Rand Bataineh, Hala I. Al-Jaber, Abdulrahman G. Alhamzani, Yousef Al-Dalalmeh, Tariq Bataineh, Sultan T. Abu Orabi, Mahmoud A. Al-Qudah, *Ballota saxatilis* from Jordan: Evaluation of Essential Oil Composition and Phytochemical Profiling of Crude Extracts and Their *In-Vitro* Antioxidant Activity. *Separations* 2023, 10(2), 114; <https://doi.org/10.3390/separations1002011>
6. Barhoumi, L. M., Al-Jaber, H. I., Zarga, M. H. A., & Al-Qudah, M. A. (2023). A study of the chemical constituents of *Nepeta curviflora* from Jordan. *Arabian Journal of Chemistry*, 16(4), 104534.
7. Al-Jaber, H. I., Zarga, M. H. A., Al-Qudah, M. A., & Shawaqfeh, A. T. (2023). Ceratoluteolin: A new flavonoid from *Salvia ceratophylla* from Jordan. *Arabian Journal of Chemistry*, 16(3), 104511.

8. Lo'ay, A., Abu-Orabi, S. T., Hlail, H. M., Alkhatib, R. Q., Al-Dalahmeh, Y., & Al-Qudah, M. A. (2023). Anthemis cotula L. from Jordan: Essential oil composition, LC-ESI-MS/MS profiling of phenolic acids-flavonoids and in vitro antioxidant activity. *Arabian Journal of Chemistry*, 16(2), 104470.
9. Al-Zereini, W., Al-Trawneh, I., Al-Qudah, M., TumAllah, H., Abudayeh, Z. & Hijazin, T. (2023). Antibacterial, antioxidant, and cytotoxic activities of *Syzygium aromaticum* (L.) Merr. & Perry essential oil with identification of its chemical constituents. *Zeitschrift für Naturforschung C*. 78 (3-4), 105-112. <https://doi.org/10.1515/znc-2022-0056>
10. Al-Qudah, M. A., Migdadi, R. S., Mayyas, A. S., Al-Zereini, W. A., Al-Dalahmeh, Y., Abu Orabi, F. M., ... & Abu-Orabi, S. T. (2022). Chemical Composition, Cytotoxicity and Antioxidant Activity of the Essential Oil from Flower Buds and Leaves of the *Pulicaria incisa* (Lam.) DC and *Pulicaria crispa* (Forskell) Oliver. *Journal of Essential Oil Bearing Plants*, 25(4), 758-772.
11. Abdulraouf Mayyas, Khaled Douglas, Mahmoud Al-Qudah, Fardous Al-Ajlouny, Dima Kreshan, Lipid markers in archaeological pottery vessels excavated at Jneeh Site, in North-Central Jordan, *Journal of Archaeological Science: Reports* 43 (2022) 103410.
12. Rami Q. Alkhatib, Afnan B. Almasarweh, Nour M. Abdo, Abdulraouf S. Mayyas, Mahmoud A. Al-Qudah, Sultan T. Abu-Orabi, Chromatographic Analysis (LC-MS and GC-MS), Antioxidant Activity, antibacterial activity, Total Phenol and Total Flavonoid Determination of *Cleome arabica* L. growing in Jordan. *International Journal of Food Properties* 25 (1), 1920-1933.
13. Nezar Al-Bataineh, Mahmoud A. Al-Qudah, Sultan Abu-Orabi, Tareq Bataineh, Rasha S. Hamaideh, Idrees F. Al-Momani, Ahmed K. Hijazi, The Use of *Capparis decidua* Extract as a Green Inhibitor for Pure Aluminum Corrosion in Acidic Media, *Corrosion Science and Technology*, 2022, 21(1), 9-20.
14. Mazhar Salim Al Zoubi, Wesam Al Khateeb, Musab El-Oqlah, Mu'ath Migdady, Manl Issam Abu Al-Arja, Muna Bzour, Ahmad El-Oqlah, Samah Almubarak, Mahmoud A. Al-Qudah, Khalid Al-Batayneh, Michella Mkhael, Ahmed Elokda, Prawej Ansari, Jma Hannan, Mohamed M Nasef, Murtaza M Tambuwala, Hamid A Bakshi, Anti-proliferative, Anti-angiogenic and Anti-inflammatory Effects of *Moringa peregrina* Leaf Extracts on Testosterone-Induced Benign Prostatic Hyperplasia in Rats, *Asian Pacific Journal of Cancer Prevention*, 2022, (1):161-169.
15. Yousef Al-Dalahmeh, Nezar Al-Bataineh, Sara S. Al-Balawi, Jamil N. Lahham, Idrees F. Al-Momani, Mohammed S. Al-Sheraideh, Abdulraouf S. Mayyas, Sultan T. Abu Orabi and Mahmoud A. Al-Qudah, LC-MS/MS Screening, Total Phenolic, Flavonoid and Antioxidant Contents of Crude Extracts from Three *Asclepiadaceae* Species Growing in Jordan, *Molecules* 2022, 27 (3), 859,
16. Asma K. Alshamari, Mahmoud A. Al-Qudah, Fedaa Hamadeh, Lo'ay Al-Momani and Sultan T. Abu-Orabi, Synthesis, Characterization, Antimicrobial and Antioxidant Activities of 1,2,4-triazolyl-isoxazole Moieties *via* Dehydration Reactions of Carbohydrazides, *Letters in Organic Chemistry*, 2022, 19(3), 228 – 235.
17. Wael A. Al-Zereini, Ibrahim N. Al-Trawneh, Mahmoud A. Al-Qudah, Heba M. TumAllah, Hamas A. Al Rawashdeh, Zaed H. Abudayeh, Essential oils from *Elettaria cardamomum* (L.) Maton grains and *Cinnamomum verum* J. Presl barks: Chemical examination and bioactivity studies, *Journal of Pharmacy & Pharmacognosy Research*, 10 (1), 173-185, 2022.
18. Musa H. Abu Zarga, Hala I. Al-Jaber, Mahmoud A. Al-Qudah & Amal M. F. Al-Aboudi (2021) A new cyclic polyketide and other constituents from *Ononis spinosa* growing wildly in Jordan and their antioxidant activity, *Journal of Asian Natural Products Research*, 2022, 24(3), 290–295.

DOI: [10.1080/10286020.2021.1914597](https://doi.org/10.1080/10286020.2021.1914597).

19. Sameeh Al-Sarayreh, Jehad Al-Shuneigat, Yousef Al-Sarairoh, Mahmoud Al-Qudah, Effect of *Artemisia judaica* Essential Oil on Bacterial Biofilm and Its Mode of Action, *Journal of Evolution of Medical and Dental Sciences*, 2021, 10(23):1777-1783.
20. Mahmoud A. Al-Qudah, Mohammad A. Onizat, Asma K. Alshamari, Hala I. Al-Jaber, Omar M. Bdair, Riyadh Muhaidat, Mazhar Al Zoubi, Nezar Al-Bataineh, Chemical composition and antioxidant activity of Jordanian *Artemisia judaica* L. as affected by different drying methods. *International Journal of Food Properties*, 2021, 24(1), 482-492.
21. Bahaa Al-Trad, Mazhar Al Zoubi, Mu'ath Migdady, Jamil Lahham, Alaa A. Alajabali, Malek Shehab, Sahar Omari, Mahmoud A Al-Qudah, Janti Qar, Riyadh Muhaidat, Ahmad El-Oqlah, Murtaza M. Tambuwala, Effects of *Artemisia judaica* Essential Oil and Ethanolic Extract on Experimentally-Induced Benign Prostatic Hyperplasia, *Pharmacogn. Mag.*, 2020, 16(5), 561-565.
22. Mahmoud A. Al-Qudah, Rasha S. Hamaideh, Idrees F. Al-Momani and Nezar Al-Bataineh, *Capparis decidua*: A Green Inhibitor for Pure Aluminum Corrosion in Basic Media, *Journal of Surface Science and Technology*, 2020, 36(3-4), 109-124.
23. Mahmoud A. Al-Qudah, Tareq T. Bataineh, Safwan M. Obeidat, Noura Rebhi Saleh, Mohammed Sharif Al-Sheraideh, Hasan I. Tashtoush, Sultan T. Abu-Orabi, Antioxidant activity of crude extracts and essential oils from flower buds and leaves of *Cistus creticus* and *Cistus salviifolius*. *Arabian Journal of Chemistry*, 2020, 13(7), 6256-6266.
24. Mahmoud A. Al-Qudah, Hasan I. Tashtoush, Ethar F. Khlaifat, Sahar O. Ibrahim, Ayman M. Saleh, Hala I. Al-Jaber, Musa H. Abu Zarga and Sultan T. Abu Orabi, Chemical Constituents of the Aerial Parts of *Salvia Judaica* Boiss. from Jordan. *Natural Product Research*, 2020, 34 (20), 2981-2985.
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26. Jehad Al-Shuneigat, Sameeh Al-Sarayreh, Arwa Rawashdeh, Yousef Al-Sarairoh, Hani Al-Shagahin, Mahmoud Al-Qudah, Bushra Altarawneh. Evaluating some biomarkers for diagnosis, prediction and therapy monitoring in a sample of Hepatocellular Carcinoma patients from Jordan, *Medical Science*, 2020, 24(103), 1027-1035.
27. Reem N. Dabaibh, Lina M. Barhoumi, Omar Bdair, Hala I. Al-Jaber, Fatma U. Afifi, Mahmoud A. Al-Qudah, Ismaeil F. Abaza, Musa H. Abu Zarga, Sultan T. Abu-Orabi, The Effect of the Geographic Location and Ontogenesis on the Essential Oil Composition and Spontaneously Emitted Volatile Organic Compounds of *Inula viscosa* (L.) Greuter. *Asian Journal of Chemistry*, 2020, 32(10), 2559-2566.
28. Jehad Al-Shuneigat, Sameeh Al-Sarayreh, Yousef Al-Sarairoh, Mahmoud Al-Qudah, Effect of *Achillea santolina* essential oil on bacterial biofilm and its mode of action, *Curr. Issues Pharm. Med. Sci.*, 2020, 33(2), 83-89
29. Mahmoud A. Al-Qudah, Fida E. Allahham, Safwan M. Obeidat, Hala I. Al-Jaber, Jamil N. Lahham, Sultan T Abu Orabi, *In vitro* Antioxidant Activities, Total Phenolics and Total Flavonoids of the Different Extracts of *Capparis spinosa* L. and *Capparis decidua* Edgew (Forssk.) from Jordan, *International Journal of Pharmaceutical Research*, 2020, 12(3), 1226-1236.
30. Mahmoud A. Al-Qudah, Hai'a G. AL-Keif, Idrees F. Al-Momani and Sultan T. Abu-Orabi. *Capparis Aegyptia* as a Green Inhibitor for Aluminum Corrosion in Alkaline Media. *Int. J. Corros. Scale Inhib.*, 2020, 9(1), 201-218.

31. Jehad M. Al-Shuneigat, Sameeh A. Al- Sarayreh, Mahmoud A. Al-Qudah, Yousef M. Al-Saraireh. Antibacterial and antibiofilm activity of essential oil of *Achillea biebersteinii* and its mode of action. J Pharm Pharmacogn Res., 2020; 8(2): 155-166.
32. Al-Shuneigat J, Al- Sarayreh S, Al-Qudah M, Al-Saraireh Y, Al-Tarawneh I. Chemical composition and antioxidant activity of essential oil of *Achillea biebersteinii*. Int J Biol Pharm Allied Sci., 2019; 8: 2002-2014.
33. Jehan Y. Al-Humaidi, Mahmoud A. Al-Qudah, Muneera S. Al-Saleem, and Shorouk M. Alotaibi, Antioxidant Activity and Chemical Composition of Essential Oils of Selected Cleome Species Growing in Saudi Arabia. Jordan Journal of Chemistry, 2019;14(1): 29-37
34. Hala I. Al-Jaber, Mahmoud A. Al-Qudah, Fadwa M. Odeh, Musa H. Abu Zarga, Two New 28-noroleanane type triterpenoids and other constituents from *Gladiolus atroviolaceus* growing wild in Jordan, Jordan Journal of Chemistry, 2019; 14(1):11-16.
35. Mahmoud A. Al-Qudah, Safwan M. Obeidat, Ahmad A. El-Oqlah, Eman Al-Masaeed¹, Ayman M Saleh, Hala I. Al-Jaber, and Sultan T. Abu Orabi, Volatile components analysis, total phenolic, flavonoid contents, and antioxidant activity of *Phlomis* species collected from Jordan, Journal of Essential Oil-Bearing Plants, 2018; 21(3): 583-599.
36. Hala I. Al-Jaber, Musa H. Abu Zarga, Amal F. Al-Aboudi, Mahmoud A. Al- Qudah, Ali F. Al-Shawabkeh, Ismail F. Abaza, Marwa N. Abuaisheh & Fatma U. Afifi. Essential Oil Composition and Anticholinesterase Activity Evaluation of *Achillea fragrantissima* Growing Wild in Jordan. Journal of Herbs, Spices & Medicinal Plants, 2018; 24(3): 272-281.
37. [Mahmoud A Al-Qudah](#), [Safwan M Obeidat](#), [Riyadh Muhaidat](#), [Bahaa Al-Trad](#), [Hala I Al-Jaber](#), [Jamil N Lahham](#), Intercomparative investigation of the total phenol, total flavonoids, *in vitro* and *in vivo* antioxidant activities of *Capparis cartilaginea* and *Capparis ovata* from Jordan, Pharmacognosy Magazine, 2018; 14(55):154-160.
38. Mahmoud A. Al-Qudah, Musa H. Abu Zarga, Monther A. Khanfar, Hala I. Al Jaber, Sultan T. Abu Orabi and Konrad Seppelt, New Cyclopropane Monoterpenes from *Varthemia iphionoides* of Jordanian Origin, *Phytochemistry Letters*, 2018; 26: 60-63.
39. Jehan Y. Al-Humaidi, Mahmoud A. Al-Qudah, Muneera S. Al-saleem, Shorouk M. Alotaibi, Phytochemical Investigation and *in vitro* Antioxidant Activities of *Cleome amblyocarpa* Barratte & Murb and *Cleome ramosissima* Parl. Growing in Saudi Arabia, Jordan Journal of Chemistry, 2017; 12(4): 241-254.
40. Ahmad N. Abu-Baker & Mahmoud A. Al-Qudah, A novel dioxime compound for protecting copper in neutral chloride solutions and to treat bronze disease in archaeological artefacts, AICCM Bulletin, 2017; 38(2): 94-102.
41. Ayman M. Saleh, Mahmoud A. Al-Qudah, Amre Nasr, Sayed A. Rizvi, Anwar Borai and Mustaf Daghistani, Comprehensive Analysis of the Chemical Composition and Cytotoxicity Mechanisms of *Pallines spinosa* flower and leaf Essential Oils Against Breast Cancer Cells, Cell Physiol Biochem, 2017; 42: 2043-2065
42. Mahmoud A. Al-Qudah, Ayman M. Saleh, Naif L. Alhawsawi, Hala I. Al-Jaber, Syed A. Rizvi and Fatma U. Afifi. Composition, Antioxidant and Anticancer Activities of the Essential Oil from Fresh and Air-Dried Aerial Parts of *Pallenis spinosa*. Chem. Biodiversity, 2017; 14: e1700146.
43. Mahmoud A. Al-Qudah, Noor K. Otoom, Hala I. Al-Jaber, Ayman M. Saleh, Musa H. Abu Zarga, Fatma U. Afifi & Sultan T. Abu Orabi: New flavonol glycoside from *Scabiosa prolifera* L. aerial parts with *in vitro* antioxidant and cytotoxic activities, *Natural Product Research*, 2017; 31(24):2865-2874
44. Fadel Wedian, Mahmoud A. Al-Qudah and Ghassab M. Al-Mazaideh, Corrosion Inhibition of Copper by *Capparis spinosa* L. Extract in Strong Acidic Medium:

Experimental and Density Functional Theory, Int. J. Electrochem. Sci., 2017; 2: 4664 – 4676.

45. Hala I. Al-Jaber, Safwan Obeidat, Mahmoud A. Al-Qudah, Ismail F. Abaza, Jamil Lahham, Musa H. Abu-Zarga and Fatma U. Afifi. Patterns in volatile emission of different organs of *Inula viscosa* growing wild in Jordan, Journal of Essential Oil Bearing Plants, 2017; 20(1): 24-35

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51. Mahmoud A. Al-Qudah, Noor K. Otoom, Hala I. Al-Jaber, Hasan I. Tashtoush, Abdulraouf S. Mayyas and Sultan T. Abu Orabi. Chemical Composition of Essential Oil of Jordanian *Scabiosa prolifera* at Different Flowering Stages, *Jordan Journal of Chemistry*, 2016; 11(2): 99-107.

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55. Fatma U. Afifi*, Violet Kasabri, Hala I. Al-Jaber, Barakat E. Abu-Irmaileh, Mahmoud A. Al-Qudah and Ismail F. Abaza. Volatile Oil Composition and Some Biological Studies of Two More *Salvia* Species from Jordan: *Salvia judaica* Boiss. and *Salvia multicaulis* Vahl. *Natural Product Communications*, 2016; 1(1-2): 1-4.

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62. Mahmoud A. Al-Qudah, Areej M. Al-Ghoul, Ibrahim N. Trawenh, Hala I. Al Jaber, Tareq M. Al Shboul and Sultan T. Abu orabi. Antioxidant Activity and Chemical Composition of Essential Oils from Jordanian *Ononis Natrrix* L. and *Ononis Sicula* Guss. *Journal of Biologically Active Products from Nature*, 2014; 4 (1): 52 – 61.
63. Mahmoud A. Al-Qudah, Hala I. Al-Jaber, Mousa H. Abu Zarga and Sultan. T. Abu orabi. Flavonoid and phenolic compounds from *Salvia palaestina* L. growing wild in Jordan and their antioxidant activities, *Phytochemistry*, 2014; 99: 115–120.
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