



Dr. Jehad Salem Mahmoud Al-Hawadi

jalhawadi@zu.edu.jo

Chemistry\ Analytical Chemistry

Academic Rank: Assistant Professor

▪ **Membership:**

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▪ **Qualifications:**

1.	Ph.D., in Analytical chemistry- The University of Jordan, Jordan (2008).
2.	M.S., in Chemistry (Analytical chemistry)- The University of Jordan, Jordan (2002).
3.	B.S., in Chemistry- Hashemite University, Jordan (1999).

▪ **Teaching Experience:**

1.	2023	Until now	Assistant professor, Zarqa University – Jordan.
2.	2008	2023	Assistant professor ,Al-Balqa Applied University – Jordan.
3.	2003	2008	Lecturer, Al-Balqa Applied University – Jordan

▪ **Publications:**

	Title	Journal	Year/ Volume and Issue
1.	Organochlorine pesticides in sheep in sheep milk and fodder in Jordan	Journal of food, agriculture & environment	2005, Volume 3, Issue 1





2.	Organochlorine pesticides in sheep-liver, kidney and adipose tissues in Jordan	Jordan journal of chemistry	2008, Volume 3, Issue 2
3.	Synthesis of Defined Polychlorinated Terphenyl (PCT) Single Congeners	Hashemite Kingdom of Jordan Ministry of Industry and Trade Directorate of Industrial Property	2012 Patent No.: 2914
4.	Banned Organochlorine Pesticides Still in Our Food: The Presence of Organochlorine Pesticide Residues in Milk, Meat, Liver, and Kidney in Jordan Cattle	Systematic Reviews in Pharmacy	2020, Volume 11, Issue 11
5.	Determination of Heavy Metals and Bacterial Count of Some Frequently Consumed Spices in Jordan	Systematic Reviews in Pharmacy	2021, Volume 12, Issue 1
6.	Banned Organochlorine Pesticides Residues in Camel Milk, Meat, and Liver: A Case Study from Jordan	Jordanian Journal of Engineering and Chemical Industries (JJEI)	2021, Volume 4, Issue 1
7.	Long-Term Irrigation with Treated Municipal Wastewater from the Wadi-Musa Region: Soil Heavy Metal Accumulation, Uptake and Partitioning in Olive Trees	Horticulturae (MDPI)	2021, Volume 7, Issue 6 https://doi.org/10.3390/horticulturae7060152
8.	<i>Phytoremediation Potential of Selected Ornamental Woody Species to Heavy Metals Accumulation in Response to Long Term Irrigation with Wastewater</i>	Water (MDPI)	2022, Volume 14, Issue 13 https://doi.org/10.3390/w14132086
9.	Effect of Treated Wastewater Irrigation on the Accumulation and Transfer of Heavy Metals in Lemon Trees Cultivated in Arid Environment	Horticulturae (MDPI)	2022, Volume 8, Issue 6 https://doi.org/10.3390/horticulturae8060514
10.	Monitoring of imidacloprid residues in fresh fruits and vegetables from the central parts of Jordan	Heliyon	2023, Volume 9, Issue 11 https://doi.org/10.1016/j.heliyon.2023.e22136





11.	Physicochemical and nutritional profiles of wild adlay (<i>Coix lacryma-jobi</i> Linn) accessions by GC, FTIR, and spectrophotometer	Food Chemistry: X	2024, Volume 22 https://doi.org/10.1016/j.fochx.2024.101418
12.	Salicylic acid and Tocopherol improve wheat (<i>Triticum aestivum</i> L.)Physio-biochemical and agronomic features grown in deep sowing stress: a way forward towards sustainable production	BMC Plant Biology	2024, Volume 24 https://doi.org/10.1186/s12870-024-05180-8
13.	Germination responses of <i>Lens Culinaris</i> L. seeds to osmotic potentials at cardinal temperatures using hydrothermal time model	BMC Plant Biology	2024, Volume 24 https://doi.org/10.1186/s12870-024-05223-0
14.	Sleuthing the performance of the sustainable mixed metal trichalogenide BaS:Sn2S3:LaS from single source route as an electrode material for charge storage	Ceramics International	2024, Volume 50, Issue 21 https://doi.org/10.1016/j.ceramint.2024.08.128
15.	Energizing tomorrow with the dithiocarbamate complexes: Unveiling BaS3: La2S3:PrS1.7 tri-metallic chalcogenide semiconductor decorated electrode for supercapacitors and electro-catalysis	International Journal of Hydrogen Energy	2024, Volume 80 https://doi.org/10.1016/j.ijhydene.2024.07.188





16.	Sustainable synthesis of facile Bi ₂ O ₃ -Sb ₂ O ₄ -ZrO nanocomposite as electrode material for energy storage and bifunctional electrocatalyst for energy generation	Journal of Energy Storage	2024, Volume 98 https://doi.org/10.1016/j.est.2024.113161
17.	BaS:MnS:Sb ₂ S ₅ Mixed Metal Chalcogenide Cubes: Synthesis, Characterization, and Exploring Energy Storage and Production Potential	Applied Organometallic Chemistry	2024, Volume 39, Issue 2 https://doi.org/10.1002/aoc.7801
18.	Semiconducting BaS ₃ :La ₂ S ₃ :DyS _{1.8} multinary metal chalcogenide hetero-system prepared via single source precursor route: expounding energy storage potential	Applied Physics A	2024, Volume 130 https://doi.org/10.1007/s00339-024-07947-0
19.	BaS ₃ :Sb ₂ S ₃ :GdS ₂ Longitudinal Rods: Single-Source Precursor Synthesis, Characterization, and Electrochemical Applications for Supercapacitance and Catalysis	ChemistrySelect	2024, Volume 9, Issue 46 https://doi.org/10.1002/slct.202403344
20.	Bifenthrin's Environmental Fate: An Insight Into Its Soil Sorption and Degradation Studies	Journal of Analytical Methods in Chemistry	2024 https://doi.org/10.1155/jamc/8868954





21.	Harnessing sustainable energy: Synthesizing a trinary chalcogenide semiconductor BaS:Sb ₂ S ₃ :CuS for enhanced performance in supercapacitor devices and electro-catalysis	Journal of Energy Storage	2024, Volume 103 https://doi.org/10.1016/j.est.2024.114527
22.	Revolutionizing energy storage and electro-catalysis: unleashing electrode power with novel BaS ₃ :La ₂ S ₃ :Ho ₂ S ₃ synthesized from single-source precursors for enhanced electrochemical functionality	Journal of Sol-Gel Science and Technology	2024, Volume 113 https://doi.org/10.1007/s10971-024-06599-z
23.	Environmental Detoxification of Benzimidazole Fungicide Fuberidazole via Microbial Action in Liquid Cultures	Mycobiology	2024, Volume 52, Issue 5 https://doi.org/10.1080/12298093.2024.2416733
24.	Effect of Different Fertilization Strategies on Infestation of Brown Wheat Mite and Wheat Productivity	Agronomy	2024, Volume 14, Issue 10 https://doi.org/10.3390/agronomy14102428
25.	An Assay on the Antibactericidal Functionality of Synthesized Mg-Doped ZnO Nanoparticles on the Dental Microbes	Microscopy Research and Technique	2025, Volume 88, Issue 2 https://doi.org/10.1002/jemt.24720
26.	Electrochemical performance elucidation of the BaCu ₂ SnS ₄ ternary metal chalcogenide using diethyldithiocarbamate ligand for fabrication aimed at supercapacitor electrodes	Journal of Materials Research	2025 DOI:10.1557/s43578-025-01526-6





▪ Personal Information

Name	Jehad Salem Mahmoud Al-Hawadi		
Place and Date of Birth	sahab 16 / 8 / 1977		
Nationality	Jordanian		
Marital Status	Married		
Address	Amman – sahab		
Work Tel No.	+962(5)3821100	Minor	
Mobile No.	+962777784508		
Postal Address	Faculty of Science – Zarqa University – P.O. Box 132222 – Zarqa – Jordan.		