

Title of Thesis:

“Synthesis and studying of dendrimers functionalized with carbon disulfide Derivatives”.

- ❖ **B.Sc. (Chemistry), 1993.** GPA: 78.05% (very good), (first in my class). Mu'tah University, Al-Karak, Jordan.

PROFESSIONAL EXPERIENCES

- ❖ Research Assistant for Prof. Dr. Imad (Moh'DKhair) Rashid Hamadneh in green synthesis of nanoparticles and their applications in waste removal in Material Science and Nanotechnology Lab, the university of Jordan from August 2018 to November 2108.
- ❖ **B.Sc in military science.** Staff College /Jordan 2010, Royal command and staff college.
- ❖ **Psychological operations Diploma,** USA, 2008.

SOCIETIES AND PUBLIC SERVICES

- ❖ Member of **Jordanian Chemical Society (JCS)**, Amman, Jordan since 2016.
- ❖ Member of **American Chemical Society (ACS)**, USA since 2017.

Relevant Skills and knowledge

- ❖ Ultraviolet-Visible Absorption Spectroscopy (UV-VIS).
- ❖ Fourier Transform Infrared Spectroscopy(FTIR).
- ❖ Nuclear magnetic resonance Spectroscopy (NMR).

- ❖ Scanning electron microscopy(SEM)/transmission electron microscopy(TEM)/ Scanning transmittance electron microscopy(STEM).
- ❖ Thermal gravimetric analysis (TGA).
- ❖ Particle Size Analyzer with zeta potential.
- ❖ Powder X-ray Diffractometer (XRD).
- ❖ Surface area analysis (BET&PJH).

TRAINING COURSES

- ❖ English language course for six months (90%, Excellent), JAF language institute.
- ❖ Comprehensive Computer skills, JAF institute.
- ❖ Training course Chemical Safety and Security Workshop/ Scientific writing and Publishing (ACS)

TEACHING COURSES

- ❖ **Inorganic chemistry 1**
- ❖ **Inorganic chemistry 2**
- ❖ **Inorganic chemistry 3**
- ❖ **Organometallics**
- ❖ **Practical Inorganic chemistry**
- ❖ **Industrial Inorganic chemistry**
- ❖ **General Chemistry**
- ❖ **Chemistry of main group elements**
- ❖ **Practical general chemistry**
- ❖ **Special topics in inorganic chemistry**

PUBLICATIONS

1. Hamadneh, I., Alhayek, H., **Al-Mobydeen, A.**, Abu Jaber, A., Albuqain, R., Alsotari, S., Al-Dujaili, A.H., 2018, " Green Synthesis and Characterization of Yttrium Oxide, Copper Oxide and Barium Carbonate Nanoparticles Using Azadirachta Indica (the Neem Tree) Fruit Aqueous Extract", *Egyptian Journal of Chemistry* ([Volume 62, Issue 4](#), April 2019, Page 573-581).

2. Imad Hamadneh, **Ahmed Al-Mobydeen**, Yousef Al-Dalahmeh, Rula Albuqain, Shorouq Alsotari, Omar H. Al-Obaidie, Borhan Albiss, Ammar H. Al-Dujaili. 2022. "Green synthesis of a YBa₂Cu₃O₇ ceramic superconductor using the fruit extract of Juniperus phoenicea" *Ceramics International*, Volume 48, Issue 9, 1 May 2022, Pages 12654-12659

3. Imad Hamadneh, **Ahmed Al-Mobydeen**, Fayza Hannon, Afnan Abu Jaber, Rula Albuqain, Shorouq Alsotari, Ammar Al-Dujaili, 2021, Arsenite adsorption on biochar-based nano copper oxide composites using Mediterranean cypress cones: equilibrium, kinetic, *Desalination and Water Treatment*, 221 (2021) 260–269 May.

4. Imad Hamadneh, Rund A Abu-Zurayk, Aseel Aqel, **Ahmed Al-Mobydeen**, Lama Hamadneh, Yousef Al-Dalahmeh, Fayza Hannon, Rula Albuqain, Shorouq Alsotari, Ammar H Al-Dujaili. 2022, *DESALINATION AND WATER TREATMENT*. Impact of H₃PO₄-activated carbon from pine fruit shells for paracetamol adsorption from aqueous solution. 264 (293-306).

5. Yousef Al-Dalahmeh, Imad Hamadneh, Ghaida Aburumman, **Ahmed Al-Mobydeen**, Marya Alkhawaldeh, Akram AbuShawer, Rania Ahmed, Muayad Esaifan, and Ammar H. Al-Dujaili. *Adsorption Science & Technology Volume 42*, 2024. Biosorption of hexavalent chromium by biochar prepared from the Ceratonia siliqua pod: Kinetic, equilibrium, and thermodynamics studies.

6. Bety S. Al-Saqarat, **Ahmed Al-Mobydeen**, Ahmed N. Al-Masri, Muayad Esaifan, Imad Hamadneh, Iessa Sabbe Moosa, and Ehab AlShamaileh. *Micromachines* 2023, 14(3), 564. Facile Production Method of PbS Nanoparticles via Mechanical Milling of Galena Ore.

7. Ehab AlShamaileh, Abdelmnim M. Altwaiq, **Ahmed Al-Mobydeen**, Imad Hamadneh, Bety S. Al-Saqarat, Arwa Hamaideh, and Iessa Sabbe Moosa. *Materials* 2023, 16(18), 6291. The Corrosion Inhibition of Montmorillonite Nanoclay for Steel in Acidic Solution.

8. Bety S. Al-Saqarat, **Ahmed Al-Mobydeen**, Yousef Al-Dalahmeh, Ahmed N. Al-Masri, Abdelmnim M. Altwaiq, Imad Hamadneh, Qusay Abu-Afifeh, Mutaz M. Zoubi, Muayad Esaifan, Iessa Sabbe Moosa, and Ehab AlShamaileh. *Metals* 2024, 14(4), 439. Study of Galena Ore Powder Sintering and Its Microstructure.

9. Muayad Esaifan, **Ahmed Al-Mobydeen**, Ahmed N. Al-Masri, Abdelmnim M. Altwaiq, Bety S. Al-Saqarat, Wadah Mahmoud, Arwa Hamaideh, Iessa Sabbe Moosa, Imad Hamadneh, and Ehab AlShamaileh. *Inorganics* 2023,

11(9), 355. Synthesis of Nanostructured Alumina from Byproduct Aluminum Filings: Production and Characterization.

REFEREES

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