

CURRICULUM VITAE

Personal particulars



Full Name : Ahmed Abed ALkader Moh'D ALmobydeen
Date of Birth : 05th Mar. 1972
Place of Birth : Madaba / Jordan
Sex : Male
Nationality : Jordanian
Occupation : Assistant Professor of Inorganic Chemistry,
Jerash University
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Academic qualifications

❖ **Ph.D. (Chemistry) 2019.** GPA: 3.61 / 4.00 (very good), University of Jordan, Jordan.

Title of Thesis:

Green Synthesis of CuO, BaCO₃, and Y₂O₃ Nanoparticles Using Mediterranean Cypress Cones and their Applications in YBa₂Cu₃O_{7-δ} Superconductor synthesis and Biochar-Based Nano Copper Oxide Composites for Arsenic Removal”.

❖ **M.Sc. (Chemistry), 2006.** GPA: 81.8% (very good). AL-al-Bayt University, Jordan.

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

- ❖ Retired colonel from Jordan's armed forces (JAF).
- ❖ Research Assistant for Prof. Dr. Imad (Moh'DKhair) Rashid Hamadneh in green synthesis of nanoparticles and their applications in waste removal in Materials Science and Nanotechnology Lab, University of Jordan, from August 2018 to November 2018.
- ❖ **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 the **American Chemical Society (ACS)**, USA, since 2017.
- ❖ Member of the Arabica encyclopedia.

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.
- ❖ Chemistry of main group elements.
- ❖ Industrial Inorganic Chemistry.
- ❖ Special topics in inorganic Chemistry.
- ❖ Practical Inorganic Chemistry.
- ❖ General Chemistry.
- ❖ Practical General Chemistry.

Publications

1. Hamadneh, I., Alhayek, H., Al-Mobydeen, A., Abu Jaber, A., Albuqain, R., Alstotari, 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).<https://doi.org/10.21608/ejchem.2018.5281.1469>
2. Imad Hamadneh, Ahmed Al-Mobydeen, Fayza Hannon, Afnan Abu Jaber, Rula Albuqain, Shorouq Alstotari, Ammar Al-Dujaili. 2021, "Arsenite adsorption on biochar-based nano copper oxide composites using Mediterranean cypress cones: equilibrium, kinetic and thermodynamic studies", *Desalination and Water Treatment* (Volume 221, May 2021, Pages 260-269).<https://doi.org/10.5004/dwt.2021.27043>
3. Imad Hamadneh, Ahmed Al-Mobydeen, Yousef Al-Dalahmeh, Rula Albuqain, Shorouq Alstotari, Omar H Al-Obaidi, 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) .<https://doi.org/10.1016/j.ceramint.2022.01.135>
4. Imad Hamadneh, Rund A Abu-Zurayk, Aseel Aqel, Ahmed Al-Mobydeen, Lama Hamadneh, Yousef Al-Dalahmeh, Fayza Hannon, Rula Albuqain, Shorouq Alstotari, Ammar H Al-Dujaili. 2022, "Impact of H₃PO₄-activated carbon from pine fruit shells for paracetamol adsorption from aqueous solution", *Desalination and Water Treatment*. (Volume 264, July 2022, Pages 293-306).<https://doi.org/10.5004/dwt.2022.28589>

5. Bety S Al-Saqarat, Ahmed Al-Mobydeen, Ahmed N Al-Masri, Muayad Esaifan, Imad Hamadneh, Iessa Sabbe Moosa, Ehab Al-Shamaileh. "Facile production method of PbS nanoparticles via mechanical milling of galena ore", *Micromachines* (2023, 14(3), 564). <https://doi.org/10.3390/mi14030564>
6. 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. "Synthesis of Nanostructured Alumina from Byproduct Aluminum Filings: Production and Characterization". *Inorganics* (2023, 11(9), 355).<https://doi.org/10.3390/inorganics11090355>
7. Ehab AlShamaileh, Abdelmnim M. Altwaiq, Ahmed Al-Mobydeen, Imad Hamadneh, Bety S. Al-Saqarat, Arwa Hamaideh, and Iessa Sabbe Moosa. "The Corrosion Inhibition of Montmorillonite Nanoclay for Steel in Acidic Solution". *Materials* (2023, 16(18), 6291). <https://doi.org/10.3390/ma16186291>
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 Al-Shamaileh. "Study of Galena Ore Powder Sintering and Its Microstructure", *Metals* (2024, 14(4), 439). <https://doi.org/10.3390/met14040439>
9. Yousef AlDalahmeh, Imad Hamadneh, Ghaida Aburumman, Ahmed AlMobydeen, Marya Alkhalwaldeh, Akram AbuShawer, Rania Ahmed, Muayad Esaifan, and Ammar H. Al-Dujaili. "Biosorption of hexavalent chromium by biochar prepared from the Ceratonia siliqua pod: Kinetic, equilibrium, and thermodynamics studies", *Adsorption Science & Technology* (Volume 42, 2024). <https://doi.org/10.1177/02636174241241946>
10. Imad Hamadneh, Abeer Alsharafat, , Maisaa Alzawahrah, Akram Abu Shower, Hana Hammad, Ahmed Al-Mobydeen, Sawsan Qanadilo and Ammar H Al-Dujail. "Kinetic and thermodynamic investigations of neem fruit (*Azadirachta indica*) activated with H₃PO₄ for adsorption of hexavalent chromium", *Adsorption Science & Technology* (Volume 43, 2025).<https://doi.org/10.1177/02636174251332165>
11. Ahmed Al-Mobydeen, Ehab AlShamaileh, Bashar Lahlouh, Mariam Al-Qderat, Ahmed N AL-Masri, Wadah Mahmoud, Imad Hamadneh, Muayad Esaifan, Iessa Sabbe Moosa. "Synthesis of ZnS Nano-Powders and Fabrication of ZnS Thin Films via Electron-Beam Evaporation: Structural and Optical Characterization", *Coatings* (2025, 15(7), 796). <https://doi.org/10.3390/coatings15070796>
12. Ahmed Al-Mobydeen, Mohammed M Alawamleh, Sondos Shamha, Ehab AlShamaileh, Iessa Sabbe Moosa, Jamal Rahhal, Mike Haddad, Walaa Al-Tarawneh, Yousef Al-Dalahmeh, Imad Hamadneh. "The Influence of Sintering Temperature on the Transport Properties of GdBa₂Cu₃O₇ Superconductor Prepared from Nano-Powders via the Co-Precipitation Method", *Inorganics* (2026, 14(1), 25). <https://doi.org/10.3390/inorganics14010025>

Conferences

1. Biotechnology and Food Security conference. April 2024. Faculty of Science, Jerash University, Jerash, Jordan.
2. First International Conference on Scientific Research (ICSR'23), (The Role of Scientific Research Centers in the Future Foresight). 23rd- 24th August 2023 Jerash University, Jerash, Jordan.
3. Chemistry Horizons Innovation for a Sustainable Future- Second Scientific Conference. 28-29 April 2026. Jerash University, Jerash, Jordan.

Referees

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