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Murad A. AlDamen

Professor of Inorganic Chemistry

Professional Interests

X-Ray Crystallography, Crystal Engineering, Magnetism: Inorganic Magnetic clusters and Inorganic molecule-based magnets, Magnetostructural properties, Models in Molecular Magnetism, Theoretical Inorganic Chemistry, Clusters, MOFs, Luminescent Materials, Polyoxometalates Chemistry

Education

2004-2008 <u>PhD in Inorganic Chemistry</u> / University of Valencia/Spain **Thesis title:** Theoretical Study of Polyoxometalates with Interest in Molecular Magnetism (Cum Laude)
2004-2006 <u>DEA</u> (Diploma de Estudios Avanzados)/University of Valencia/Spain
2002-2004 <u>MSc in Chemistry</u> / University of Jordan/Jordan **Thesis Title:** Building Synthons in the Structures of 2-Amino-4,6-Dimethylpyridine and 3,5-Dibromo-2-Amino-4,6-Dimethylpyridine with Halides and Metal Halides
1998-2002 BSc in Chemistry /University of Jerash/Jordan

Academic Ranks

Full Prof. in Inorganic chemistry	The University of Jordan
9/2017	
Associated Prof. in Inorganic chemistry	The University of Jordan
9/2013	
Assistant Prof. in Inorganic chemistry	The University of Jordan
9/2009	

Scientific achievements

TWAS Young Affiliates 2016-2020 IUPAC committee (Inorganic Division) 2022-2023 TWAS Regional Awards in Development of Scientific Educational Material 2019

Academic Positions

2020- Head of Chemistry Department in Taibah University / Alula
2018-2020 Vice dean of quality and development in faculty of science and arts at alula.
2012-2013 Assistant to the dean of quality (Faculty of Science / The

University of Jordan) 2014-2015 Assistant to the dean of quality (Faculty of Science / The

University of Jordan)



<u>Research</u>

ResearcherID: C-7393-2011

ORCID: https://orcid.org/0000-0002-1582-

RG: https://www.researchgate.net/profile/Murad_AlDamen/ **GS:** https://scholar.google.com/citations?user=Nn7PZaIAAAAJ&hl=e n

Official website: http://eacademic.ju.edu.jo/maldamen *Personal website:* sites.google.com/site/chemistryataldamen 2811

Scientific organization memberships

Jordan Chemical Society 2008-Spanish Royal Society of Chemistry 2004-2008, 2015-2016 American Chemical Society (ACS) 2020-

Publications (ISI and Scopus; Last five years only)

Research indicators

2020

2020

	Google scholar	Scopus/ISI
h-index	15	13
Citation	1893	1645
No. Publications	75	59
RG Score= 37.4		

Exploring the Role of Intramolecular Interactions in the Suppression of Quantum Tunneling of the Magnetization in a 3d-4f Single-Molecule Magnet **Inorganic Chemistry**, **IF** = **5.16**.

2021 Cationic dye adsorption and separation at discrete molecular level: first example of an iron cluster with rapid and selective adsorption of methylene blue from aqueous system **New Journal of Chemistry**; **IF** = **3.29**

A two dimensional Co (II) metal–organic framework with bey topology for excellent dye adsorption and separation: Exploring kinetics and mechanism of adsorption. **Inorganic Chimica Acta**; **IF** = 2.05

Synthesis, crystal structure, DFT calculations, molecular docking study and Hirshfeld surface analysis of alkoxidobridged dinuclear iron (III) complex. **Research on Chemical Intermediates**; **IF = 2.04**

Heterometallic (3d-4f) Coordination Clusters with Unique Topology: Self-Assembly Synthesis, Structural Features, and Magnetic Properties. Crystal Growth & Design; IF = 4.15

Understanding the Formation of 5-(Diethylammoniothio)-2020 1, 3-dimethylbarbituric Acid: Crystal Structure and DFT Studies Journal of Chemical Crystallography; IF = 0.57

2020 Structural and DFT Study of 1-(3-Amino-1,4-dioxo-1,4-

dihydronaphthalen-2-yl)-3,4-dichloro-1H-pyrrole-2,5dione: Hypothesis for the Ring Closure; **Heterocyclic**; **IF** = **0.67**

Crystal Structure and Magnetic Properties of a New Wells-2020 Dawson [β-P₂CoW₁₇O₆₂]¹⁰⁻ Polyoxoanion. Journal of Structural Chemistry; IF = 0.75

Design, Synthesis and Characterization of Novel Isoxazole 2020 Tagged Indole Hybrid Compounds **Open Chemistry; IF =** 1.22

Synthesis, Characterization and Biological Evaluation of 2020 Metal Adamantyl 2-Pyridylhydrazone Complexes Molecules; IF = 3.27

Exploring solvent dependent catecholase activity in 2020 transition metal complexes: an experimental and theoretical approach **New Journal of Chemistry**; **IF** = **3.29** Release Kinetics of Nicotine Loaded onto Mesoporous

2019 Silicate Materials for Use in Nicotine Replacement Therapy Current Drug Design; IF = 2.41

A paddle wheel dinuclear Copper (II) carboxylate: Crystal 2019 structure, thermokinetic and magnetic properties. *Journal of Molecular Structure*; IF = 2.10

The role of hydrogen bonding in $\pi \cdots \pi$ stacking interactions in Ni(II) complex derived from triethanolamine: synthesis,

2019 crystal structure, antimicrobial, and DFT studies. *Research* on *Chemical Intermediates*; IF = 2.10

The crystal structure of 3-(1H-benzo[d]imidazol-2-yl)-7chloro-1-cyclopropyl-6-fluoro-1,4-dihydroquinolin—

2019 cmoto-1-cyclopropyl-6-indoto-1,4-dmydrodumoim dimethylsulfoxide (1/1), $C_{21}H_{19}CIFN_3O_2S$. Zeitschrift für Kristallographie-New Crystal Structures; IF = 0.30

Effect of ligand substitution on the SMM properties of 2018 three isostructural families of double-cubane Mn₄Ln₂ coordination clusters. **Dalton Transactions;** IF = 0.30

Supertetrahedral T2 clusters in 3d-4f {Fe4Ln6}: Synthesis, 2018 crystal structure, magnetic and photoluminescent properties. *Inorg. Chim. Acta*; IF = 2.002

Synthesis, Characterization, Crystal Structure, and DFT 2018 Study of a New Square Planar Cu(II) Complex Containing

Bulky Adamantane Ligand. *Molecules*; IF = 2.861 Structure-Based Design: Synthesis, X-ray Crystallography, and Biological Evaluation of N-Substituted-4-Hydroxy-2-

2018 Quinolone-3-Carboxamides as Potential Cytotoxicity. *Anti-Cancer Agents in Medicinal Chemistry;* IF=2.598

Synthesis, Characterization, Crystal Structure and Fluorescence of Nanosized Samarium Schiff-base Complex. Journal of Structural Chemistry; IF=0.581

Synthesis, Structures and Magnetic Properties of New

2018 Lattice System of Heterometallic Decanuclear Ce6Mn4 Aggregate. *Journal of Structural Chemistry*; IF=0.581

2017 Hydrothermal Synthesis, Crystal Structure and Photoluminescent Properties of

Li[UO₂(CH₃COO)₃]₃[Co(H₂O)₆]. *Crystallography Reports*; IF=0.563

Na₁₄[((HPO₄)₃PW₆O₂₂)₂Co₂Na₂(H₂O)₂]¹⁸⁻: A new, carbon free, polyoxometalate (POM) catalyst for oxidation of water. *J. Cluts. Sci.*; IF=1.715

- The Crystal Structure of Reduced Ethyl 3-((2-2017 Hydroxybenzyl)amino)benzoate, a Schiff Base, Z. *Kristallogr. NCS*; IF=0.252
- Ring opening of cyclobutane in 1,3-dimethyl-5-2017 methylenebarbituric acid dimer by various nucleophiles, Zeitschrift für Naturforschung IF=0.757
- 1D cerium (III) coordination polymer with pivalate bridges:
 2017 Synthesis, structure and magnetic properties, Journal of Molecular Structure IF=2.011.
- An Azide-Bridged Copper(II) 1D-Chain with Ferromagnetic 2017 Interactions: Synthesis, structure and magnetic studies, **Transition Metal Chemistry. IF=1.261.**
- Stabilization of Meldrum's Acid Dimer and 1,3-2017 Dimethylbarbituric Acid Trimer- A Theoretical Study, Jordan Journal of Chemistry; SCOPOUS.

Alkoxo- and carboxylato-bridged hexanuclear copper(II) 2017 complex: Synthesis, structure and magnetic properties,

Inorganic Chemistry Communications, IF=1.810.

2017 Synthesis, characterization, X-ray structure, computational studies, and bioassay of novel compounds combining thiophene and benzimidazole or 1,2,4-triazole moieties, Chemistry Central Journal, IF=2.284.

- 3D oxalato-bridged lanthanide (III) MOFs with 2017 magnetocaloric, magnetic and photoluminescence properties, **Dalton Transactions**, **IF=4.029**.
- 2017 Synthesis and characterization of a mixed-valent Mn11– La2 aggregate with benzoate, Monatshefte für Chemie-Chemical Monthly. IF=1.285

Teaching Experience

2002-2003 The University of Jordan: Teaching Assistant 2008-2016 The University of Jordan (2008-2016 sabbatical leave):

General and Inorganic chemistry courses, Research methods in chemistry, Crystallography and X-Ray Diffraction (Master). 2016- **The University of Tabuk:** Inorganic chemistry courses 2017- **Taibah University:** General Chemistry and Inorganic chemistry courses, Safety and Instrumentations course **Conferences**

2017 1st International Conference of TWAS Young Affiliates Network, Rio de Janero, Brasil (Oral Presentation)
2017 Chemistry and Biological Sciences conference in Al al-Bayt University (PhD student participation)
2016 Sustainability in Food and Water: An Arab Viewpoint (TWAS-ARO) (Participant)



2012 11th Jordanian conference on Chemistry, Mafraq, Jordan (Poster participation)

2011 7th SESAME JORDANIAN WORKSHOP, Amman, Jordan (Speaker)

2010 EuAsC2S-11, Dead sea, Jordan, (Poster)

2010 60th Meeting of Nobel Laureates in Lindau, COMSTECH (Organization of Islamic Conference Standing Committee on Scientific and Technological Cooperation) fellowship
 2007 COST meeting D37-DeciQ, Toulouse, France (Oral Presentation)

2005 International Symposium on Nano-structures and Physicochemical Properties of Polyoxometalates, Superclusters and Related Colloid Particles, Lyon, France.

2004 VII Escuela Nacional De Materiales Moleculares, Boí Taull, Spain (Oral Participation)

Training Workshops

As a trainee

• • 1st Molcas workshop by Lund University / Valencia, Spain (20-23/4/2006

• • Gaussian workshop by Gaussia, Inc., SGI and CESCA / Barcelona, Spain (20 hr, 6-9/6/2006

• • 9th intensive European program "Physics and Chemistry of Multifunctional Materials by Genova University and Joseph Fourier Polytechnic University / (Genova, Italy) 35 hr lectures + Practical

• • Training course (Single X-ray Diffraction) by Agilant company / Oxford, England 28/11-2/12/2011

As a trainer

Training more than 300 teachers from KSA to use e-learning tools

