



Curriculum vitae

Name: **Murad Abbas Abdallah AlDamen**

Full Professor of Inorganic Chemistry
Department of Chemistry / Faculty of Science
TWAS affiliates 2016-2020

ResearcherID: C-7393-2011

Researchgate: https://www.researchgate.net/profile/Murad_AlDamen/

GoogleScholar: <https://scholar.google.com/citations?user=Nn7PZaIAAAAJ&hl=en>

Official website: <http://eacademic.ju.edu.jo/maldamen>

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The University of Jordan, School of Science

P.O. Box 11942

Amman, Jordan

Academic progress

| | <i>Centre</i> | <i>Date</i> |
|--|-------------------------------------|----------------|
| Full Prof. in inorganic chemistry | <i>The University of Jordan</i> | <i>9/2017</i> |
| Associated Prof. in inorganic chemistry | <i>The University of Jordan</i> | <i>9/2013</i> |
| Assistant Prof. in inorganic chemistry | <i>The University of Jordan</i> | <i>9/2009</i> |
| <i>PhD in Inorganic Chemistry</i> | <i>University of Valencia/Spain</i> | <i>12/2008</i> |
| <i>DEA (Diploma de Estudios Avanzados)</i> | <i>University of Valencia/Spain</i> | <i>8/2006</i> |
| <i>Thesis title: Theoretical Study of Polyoxometalates with Interest in Molecular Magnetism</i> | | |
| | <i>University of Jordan/Jordan</i> | <i>8/2004</i> |
| <i>MSc in Chemistry</i> | | |
| <i>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</i> | | |
| <i>BSc in Chemistry</i> | <i>University of Jerash/Jordan</i> | <i>8/2002</i> |

Languages: Arabic (mother tongue), English and Spanish.

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

PUBLICATIONS

---Last five years---

1. MN Akhtar, Y Lan, MA AlDamen, YZ Zheng, CE Anson, AK Powell. *Effect of ligand substitution on the SMM properties of three isostructural families of double-cubane Mn_4Ln_2 coordination clusters*. Dalton Transactions, 47, 2018. 3485-3495. **INDEX = ISI IF=4.029**
2. Muhammad Nadeem Akhtar, Xiao-Fen Liao, Yan-Cong Chen, Murad A. AlDamen, Guo-Zhang Huang, Jun-Liang Liu, Javid Khan, Ming-Liang Tong. *Supertetrahedral T2 clusters in 3d-4f (Fe_4Ln_6): Synthesis, crystal structure, magnetic and photoluminescent properties*. Inorg. Chim. Acta, 482, 2018, 240-245. **INDEX = ISI IF=2.002**
3. Monther Khanfar, Areej Jaber, Murad A. AlDamen, Raed Al-Qawasmeh. *Synthesis, Characterization, Crystal Structure, and DFT Study of a New Square Planar Cu (II) Complex Containing Bulky Adamantane Ligand*, Molecules 23, 2018, 701-710. **INDEX = ISI IF=2.861**
4. Dima A Sabbah, Bayan Hishmah, Kamal Sweidan, Sanaa Bardaweel, Murad AlDamen, Haizhen A Zhong, Reema Abu Khalaf, Ibrahim Hasan, Tariq Al-Qirim, Ghassan Abu Sheikha, Mohammad S Mubarak, *Structure-Based Design: Synthesis, X-ray Crystallography, and Biological Evaluation of N-Substituted-4-Hydroxy-2-Quinolone-3-Carboxamides as Potential Cytotoxicity*. Anti-Cancer Agents in Medicinal Chemistry, 18, 2018, 263-276. **INDEX = ISI IF=2.598**
5. Abdel Aziz Abu-Yamin, Murad A. AlDamen, Hassan K. Juwhari, Mahmoud Salman, Ibrahim Sarairah, Jibril Alhawarin, Mohammad S. Mubarak. *Synthesis, Characterization, Crystal Structure and Fluorescence of Nanosized Samarium Schiff-base Complex*. (accepted, 2018, JSC/Springer.) **INDEX = ISI IF=0.581.**
6. Mohammad N. Akhtar, MA. AlDamen, Mohammad Ikram. *Synthesis, Structures and Magnetic Properties of New Lattice System of Heterometallic Decanuclear Ce_6Mn_4 Aggregate*. 2018, Journal Structural Chemistry, 59, 601-605. **INDEX = ISI IF=0.581**
7. Murad A. AlDamen, Hassan K. Juwhari, Aya M. Al-zuheiri, Louy A. Alnazer. *Hydrothermal Synthesis, Crystal Structure and Photoluminescent Properties of $Li[UO_2(CH_3COO)_3]_3[Co(H_2O)_6]$* , 2017. Crystallography Reports, 62 (7), 1160-1164. **INDEX = ISI IF=0.563**
8. Murad A. AlDamen, Afnan Al-hunaiti, Aleksii Eronen, Mohammad S. Mubarak, Benjamin H. R. Gerroll, Dennis G. Peter. *$Na_{14}[(HPO_4)_3PW_6O_{22}]_2Co_2Na_2(H_2O)_2$ ¹⁸⁻: A new, carbon-free, polyoxometalate (POM) catalyst for oxidation of water*. J. Clusts. Sci. 28, 2017, 3087-3101. **INDEX = ISI IF=1.715**
9. Mahmoud Salman, Abdel Aziz Abu-Yamin, Ibrahim Sarairah, Jibril Alhawarin and Murad A. AlDamen. *The Crystal Structure of Reduced Ethyl 3-((2-Hydroxybenzyl)amino)benzoate, a Schiff Base*, Z. 2017, Kristallogr. NCS, 232(4): 631–632. **INDEX = ISI IF=0.252.**
10. Kamal Sweidan, Wael Abu Dayyih, Murad A AlDamen, Eyad Mallah, Tawfiq Arafat, Mustafa M El-Abadelah, Hanadi Salih, Wolfgang Voelter, *Ring opening of cyclobutane in 1,3-dimethyl-5-methylenebarbituric acid dimer by various nucleophiles*, 2017, Zeitschrift für Naturforschung B 72 (5), 377-382. **INDEX = ISI IF=0.757.**
11. MN Akhtar, M Mateen, M Sadakiyo, MF Warsi, MA AlDamen, Y Song, *1D cerium (III) coordination polymer with pivalate bridges: Synthesis, structure and magnetic properties*, 2017, Journal of Molecular Structure 1141, 175-170. **INDEX = ISI IF=2.011.**
12. Muhammad Nadeem Akhtar, Sadia Tahir, Masaaki Sadakiyo, Murad A. AlDamen, *An Azide-Bridged Copper(II) 1D-Chain with Ferromagnetic Interactions: Synthesis, structure and magnetic studies*, Transition Metal Chemistry 42 (7), 635-641. **INDEX = ISI IF=1.261.**
13. K Sweidan, MA AlDamen, MO Sinnokrot, A Al-Sheikh, MS Mubarak, *Stabilization of Meldrum's Acid Dimer and 1,3-Dimethylbarbituric Acid Trimer- A Theoretical Study*, Jordan Journal of Chemistry 12 (1), 1-10. **INDEX=SCOPOUS.**

14. Ming-Liang Tong Muhammad Nadeem Akhtar, Murad A. AlDamen, Yan-Cong Chen, Masaaki Sadakiyo, Javid Khan, *Alkoxo- and carboxylato-bridged hexanuclear copper(II) complex: Synthesis, structure and magnetic properties*, 2017, Inorganic Chemistry Communications, 83, 49-51. **INDEX = ISI. IF=1.810.**
15. Mohammad Mubarak, Yahia n Mabkhot, Salim S Al-Showiman, Saied M Soliman, Hazem A. Ghabbour, Murad A. AlDamen, *Synthesis, characterization, X-ray structure, computational studies, and bioassay of novel compounds combining thiophene and benzimidazole or 1,2,4-triazole moieties*, 2017, Chemistry Central Journal, 11, 1-9. **INDEX = ISI. IF=2.284.**
16. Muhammad N. Akhtar, You C. Chen, Murad A. AlDamen, ML Tong. *3D oxalato-bridged lanthanide (III) MOFs with magnetocaloric, magnetic and photoluminescence properties*, Dalton Transactions, 2017; 46(1): 116-124. **INDEX = ISI IF=4.029**
17. MA AlDamen, N Charef, HK Juwhari, K Sweidan, MS Mubarak, DG Peters. *Crystal Structures, Optical Properties, and TD-DFT Study of a Zinc(II) Schiff-Base Complex Derived from Salicylaldehyde and N1-(3-aminopropyl) Propane-1, 3-Diamine*, Journal of Chemical Crystallography 2016; 46(10-12): 411-420 **INDEX = ISI. IF=0.699**
18. MN Akhtar, Y Lan, V Mereacre, MA AlDamen, CE Anson, AK Powell. *Synthesis and characterization of a mixed-valent Mn₁₁-La₂ aggregate with benzoate*, Monatshefte für Chemie-Chemical Monthly, 2017; 148:887-891. **INDEX = ISI. IF=1.285**
19. Suzan A Matar, Wamidh H Talib, Mohammad S Mustafa, Mohammad S Mubarak, Murad A AlDamen: *Synthesis, characterization, and antimicrobial activity of Schiff bases derived from benzaldehydes and 3,3'-O-diaminodipropylamine*. Arabian Journal of Chemistry, 11/2015, 8 (6), 850-857. **INDEX = ISI. IF=2.696.**
20. Murad A. AlDamen, Suheir Baniatta and Salim F. Haddad. A 3D Inorganic Architecture Based on $\{[\text{Ca}(\text{H}_2\text{O})_6][\text{P}_4\text{W}_6\text{O}_{34}]_2\}^{12-}$ Building Block: Counter Cation Effect on the Lattice Symmetry, Journal Structural Chemistry, 2016; 57(4): 717-724. **INDEX = ISI. IF=0.581**
21. Juma'a Kafawein, Hassan K. Juwhari, Murad A. AlDamen, *Synthesis and Crystal Structure of New Lacunary Wells-Dawson with an Unprecedented Eu-Substituted Sandwiched Cluster*, Journal of Cluster Science, 2015; 26(5); 1683-1692. **INDEX = ISI. IF=1.715**
22. Sami H. Mahmood, Ghada H. Dushaq, Ibrahim Bsoul, Mufeed Awawdeh, Hassan K. Juwhari, Bashar I. Lahlouh, M. A. AlDamen: *Magnetic Properties and Hyperfine Interactions in M-Type BaFe_{12-2x}Mo_xZn_xO₁₉ Hexaferrites*. Journal of Applied Mathematics and Physics 04/2014; 2(5):77-87. **INDEX=X**
23. Tariq H. Talib, Murad A. AlDamen, Ramzie R. Alani: *Modeling of Advanced Photo Oxidation of Alizarin Red-S Dye Using TiO₂ as Photo Catalyst*. American Chemical Science Journal. 01/2014; 4(6):918-933. **INDEX=X**
24. Nouredine Charef, Fouzia Sebti, Lekhmici Arrar, Meriem Djarmouni, Naouel Boussoualim, Abderrahmane Baghiani, Seddik Khennouf, Ali Ourari, Murad A. AlDamen, Mohammad S. Mubarak, Dennis G. Peters: *Synthesis, characterization, X-ray structures, and biological activity of some metal complexes of the Schiff base 2,2'-((azanediylbis(propane-3,1-diyl))bis(azanylylidene))bis(methanylylidene))diphenol*. Polyhedron 01/2014. **INDEX = ISI. IF=2.108.**
25. Raed A. Al-Qawasmeh, Bader A. Salameh, Rami AlRazim, Murad A. AlDamen, Wolfgang Voelter: *Microwave Assisted Synthesis of New Adamantyltriazine Derivatives*. Letters in Organic Chemistry 05/2014; 11(7). **INDEX = ISI. IF=0.539.**
26. M. A. AlDamen, M. Sinnokrot: *Crystallographic and theoretical studies of 1-(1-naphthyl)-2-thiourea with intermolecular N-H...S heteroatom interaction and N-H...π interaction*. Journal of Structural Chemistry 01/2014; 55(1). **INDEX = ISI. IF=0.581**
27. G. H. Dushaq, S. H. Mahmood, I. Bsoul, Hassan K. Juwhari, B. Lahlouh, M. A. AlDamen: *Effects of molybdenum concentration and valence state on the structural and magnetic properties of BaFe_{11.6}Mo*

$x\text{Zn}_{0.4-x}\text{O}_{19}$ hexaferrites. Acta Metallurgica Sinica (English Letters) 10/2013; 26(5):509-516. INDEX = ISI. IF=1.341.

28. Kamal Sweidan, Salim F Haddad, Murad A Aldamen, Ahmed Al-Sheikh: *4-Chloro-butyl 7-chloro-1-cyclo-propyl-4-(1,3-diethyl-4,6-dioxo-2-sulfanyl-idene-1,3-diazinan-5-yl-idene)-6-fluoro-1,4-di-hydro-quinoline-3-carboxyl-ate*. Acta Crystallographica Section E Structure Reports Online 08/2013; 69(Pt 8):o1191. INDEX = SCOPOUS. (Before 201
29. Ismail Warad, Mousa Al-Noaimi, Obadah S Abdel-Rahman, Murad Aldamen, Belkheir Hammouti, Taibi B Hadda: *New catalysts for the chemoselective reduction of α , β -unsaturated ketones: Synthesis, spectral, structural and DFT characterizations of mixed ruthenium (II) complexes containing 2-ethene-1, 3-bis (diphenylphosphino) propane and diamine ligands*. Polyhedron 01/2013; 63:182-188. INDEX = ISI. IF=2.108.

–2012–

30. Murad A Aldamen, Salim F Haddad: *Bis{(E)-3-[(2-hydroxy-benzyl-idene)amino]-prop-yl}ammonium chloride*. Acta Crystallographica Section E Structure Reports Online 12/2012; 68(Pt 12):o3314. INDEX = SCOPOUS since 2013 (ISI 2012)= IF=0.347.
31. Raed A Al-Qawasmeh, Monther A Khanfar, Musa H Abu Zarga, Murad A Aldamen: *2-(4-Methyl-phenyl)quinoline-4-carb-oxy-lic acid*. Acta Crystallographica Section E Structure Reports Online 10/2012; 68(Pt 10):o2892. INDEX = SCOPOUS since 2013 (ISI 2012)= IF=0.347.
32. Mousa Al-Noaimi, Mahmoud Sunjuk, Mohammad El-khateeb, Salim F. Haddad, Alaa Haniyeh, Murad Aldamen: *cis–trans Isomerism in mixed-ligand ruthenium(II) complexes containing bis(phosphine) and azoimine ligands*. Polyhedron 07/2012; 42(1):66-73. INDEX = ISI.
33. Mousa Al-Noaimi, Murad A. Aldamen: *Ruthenium complexes incorporating azoimine and α -diamine based ligands: Synthesis, crystal structure and electrochemistry and DFT calculation*. Inorganica Chimica Acta 05/2012; 387:45-51. INDEX = ISI.
34. Murad A Aldamen, Mohammad S Mubarak: *Theoretical and experimental study of lone pair interactions in THF/chloranilic acid system*. Structural Chemistry 02/2012; 24(1):215. INDEX = ISI.
35. Kamal Sweidan, Murad A. Aldamen, C. Maichle-Mößmer, Mohammad S. Mubarak: *Synthesis, Crystal Structure and Thermodynamic Calculations of 1,3-Diethyl-5-(diethylaminium)methylene-2-thiobarbituric Acid Adduct*. Journal of Chemical Crystallography 01/2012; 42(5):427. INDEX = ISI.

–2010-2011–

36. Murad A. Aldamen, Salim F. Haddad: *A new mixed multi-metallic calcium–cobalt-phosphotungstate with nano wheel-like polyanion: $\text{Na}_6\text{Ca}_3[\text{Ca}_2(\text{H}_2\text{O})_6\text{Co}_9(\text{OH})_3(\text{H}_2\text{O})_6(\text{HPO}_4)_2(\text{PW}_9\text{O}_{34})_3]$* . Journal of Coordination Chemistry 11/2011; 64(24):4244-4253. INDEX = ISI.
37. Mousa Al-Noaimi, Robert J. Crutchley, Murad Aldamen, Abdel Monem Rawashdeh, Monther A. Khanfar, Konrad Seppelt: *Ruthenium(II) complexes with tetradentate pyridylthioazoimine [N,S,N,N] ligands: Synthesis, crystal structure and spectroscopy*. Polyhedron 08/2011; 30(12):2075-2082. INDEX = ISI.
38. Murad A. Aldamen, Salim F. Haddad: *The nonclassical noncovalent interactions control: A case study of the crystal structure of 3,5-dibromo-2-amino-4,6-dimethylpyridinium tetrahalocuprate [3,5-DBr-2-A-4,6-DMPH]₂CuX₄ (X = Cl, and Br)*. Journal of Molecular Structure 01/2011; 985(1):27-33. INDEX = ISI.
39. Monther A. Khanfar, Warad Ismail, Murad A. Aldamen: *trans-Dichlorido(2,2-dimethylpropane-1,3-diamine)bis(triphenylphosphane)ruthenium(II)*. Acta Crystallographica Section E Structure Reports Online 07/2010. INDEX = SCOPOUS since 2013 (ISI 2012)= IF=0.347.
40. Murad A Aldamen: *FRAGMENT: A Collection of Scripts to Obtain Magnetic exchange, Electron transfer and Orbital energy on Polyoxometalates*. Jordan Journal of Chemistry. 01/2010; 5(4):363-370. INDEX = SCOPOUS.

–2008-2009–

41. Murad A. AlDamen, Salvador Cardona-Serra, Juan M. Clemente-Juan, Eugenio Coronado, Alejandro Gaita-Arino, Carlos Marti-Gastaldo, Fernando Luis, Oscar Montero: *ChemInform Abstract: Mononuclear Lanthanide Single Molecule Magnets Based on the Polyoxometalates $[Ln(W_5O_{18})_2]^{9-}$ and $[Ln(\beta_2-SiW_{11}O_{39})_2]^{13-}$ (Ln^{III} : Tb, Dy, Ho, Er, Tm, and Yb)*. ChemInform 07/2009; 40(29).
42. Murad A AlDamen, Salvador Cardona-Serra, Juan M Clemente-Juan, Eugenio Coronado, Alejandro Gaita-Arino, Carlos Marti-Gastaldo, Fernando Luis, Oscar Montero: *Mononuclear lanthanide single molecule magnets based on the polyoxometalates $[Ln(W_5O_{18})_2]^{9-}$ and $[Ln(\beta_2-SiW_{11}O_{39})_2]^{13-}$ (Ln^{III} = Tb, Dy, Ho, Er, Tm, and Yb)*. Inorganic Chemistry 01/2009; 48(8):3467-3479. . INDEX = ISI. IF=14.357
43. Murad A. AlDamen, Juan M. Clemente-Juan, Eugenio Coronado, Carlos Mart-Gastaldo, Alejandro Gaita-Arino: *ChemInform Abstract: Mononuclear Lanthanide Single-Molecule Magnets Based on Polyoxometalates*. ChemInform 10/2008; 39(44).
44. Murad A Aldamen, Juan M Clemente-Juan, Eugenio Coronado, Carlos Martí-Gastaldo, Alejandro Gaita-Ariño: *Mononuclear lanthanide single-molecule magnets based on polyoxometalates..* Journal of the American Chemical Society 08/2008; 130(28):8874-5. . INDEX = ISI. IF=4.700

–2001-2007–

45. Salim F. Haddad, Murad A. AlDamen, Roger D. Willett: *The role of non-classical supramolecular interactions in the structures of 2-amino-4,6-dimethylpyridinium tetrahalocuprate(II) salts*. Inorganica Chimica Acta 01/2006; 359:424-432. . INDEX = ISI.
46. Mutasem O Taha, Murad A AlDamen: *Effects of variable docking conditions and scoring functions on corresponding protein-aligned comparative molecular field analysis models constructed from diverse human protein tyrosine phosphatase 1B inhibitors*. Journal of Medicinal Chemistry 01/2006; 48(25):8016-34. . INDEX = ISI.
47. Mutasem O Taha, Amjad M Qandil, Dhia D Zaki, Murad A AlDamen: *Ligand-based assessment of factor Xa binding site flexibility via elaborate pharmacophore exploration and genetic algorithm-based QSAR modeling*. European Journal of Medicinal Chemistry 08/2005; 40(7):701-27. . INDEX = ISI.
48. Salim F. Haddad, Murad A. AlDamen, Rawhi H. Al-Far: *3-Ammonio-2,6-dibromopyridine bromide hemihydrate*. Acta Crystallographica Section E Structure Reports Online 01/2004; 60(9). INDEX = SCOPOUS
49. Salim F. Haddad, Murad A. AlDamen, Roger D. Willett, Brendan Twamley: *A copper(I) iodide chain with the 2-amino-4,6-di-methyl-pyridine cation: $[Cu^I_2(C_7H_{11}N_2)]$* . Acta Crystallographica Section E Structure Reports Online 01/2004; 60(1). INDEX = SCOPOUS
50. Murad Aldamen: *Murad's Generalization of the Collatz's Sequences*. Derasat of Jarash. 01/2001. NOT INDEXED

Note: All ISI journals in this cv are listed in SCOPOUS too.

TAUGHT COURSES

The University of Jordan (2008-up to now)

Bachelor courses

0303101 General Chemistry I
0303102 General Chemistry II
0333104 General Chemistry for Medical Students
0303221 Inorganic Chemistry I
0303322 Inorganic Chemistry III
0303326 Practical Inorganic Chemistry
0303106 Practical General Chemistry
0333109 Practical General Chemistry for Nonchemistry Students
0353422 Special Topics in Inorganic Chemistry
0333391 Research Methods in Chemistry

Master and Doctorate courses

353722 Crystallography and X-Ray Diffraction (Master)

University of Tabuk (2015 – first semester)

Bachelor courses

General Chemistry II
Inorganic Chemistry II
Practical Inorganic Chemistry
Practical General Chemistry II
Practical Spectroscopy of Inorganic Compounds

Student Evaluation (Average) = 3.51

Taibah University (2017-)

General Chemistry (Preparatory)
Inorganic Chemistry I
Inorganic Chemistry II
Practical Inorganic Chemistry
Safety

University of Taibah/AIUla (2017 –)

CONGRESS

2017

ASU Second Symposium "Recent Trends in Postgraduate Research", April 15-16th 2017, Amman, Jordan. Poster Presentation: *N*-substituted- 4-hydroxy-2-quinolone-3-carboxamides as Potential PI3K α . The Poster is awarded the *Third Place in Postgraduate Poster Competition*. Ameerah (Hasan Ibrahim), Bayan Hishmah, Dima A. Sabbah, Kamal Sweidan, Sanaa Bardaweel, Murad AlDamen, Reema Abu Khalaf, Haizhen A. Zhong, Tariq Al-Qirim, Ghassan Abu Sheikha

Gordon Research Conference: Mammalian DNA Repair, February 19-24th, 2017, Ventura, CA, USA. Poster Presentation: Structure-Based Drug Design, Synthesis, X-ray Crystallography, and Biological Evaluation of *N*-Substituted-4-Hydroxy-2-Quinolone-3-Carboxamides as PI3K α Inhibitors.

AUTHOR/S: **Suheir Baniatta, Murad A. AlDamen, and Salim Haddad**

TITLE: مؤتمر الكيمياء والعلوم البيولوجية في "آل البيت"

PARTICIPATION: **Suheir Baniatta (talk)**

CONGRESS: مؤتمر الكيمياء والعلوم البيولوجية في "آل البيت"

COUNTRY: **Jordan (mafraq)**

DATE: **April, 2017**

2016

AUTHOR/S: **M.A. AlDamen**

TITLE: Sustainability in Food and Water: An Arab Viewpoint

PARTICIPATION:

CONGRESS: **TWAS-ARO**

COUNTRY: **Jordan (Deadsea)**

DATE: **December, 2016**

2012

AUTHOR/S: **M.I. Saleh, M.A. AlDamen and S.F. Haddad**

TITLE: A New Mixed Multi-Metallic Calcium-Cobalt-Phosphotungstate With C-Like Polyanion

PARTICIPATION: **Poster**

CONGRESS: **11th Jordanian conference on Chemistry**

COUNTRY: **Jordan (Mafraq)**

DATE: **November 2012**

2011

AUTHOR/S: **M.A. AlDamen**

TITLE: Polyoxometalates with Interest in Molecular Magnetism

PARTICIPATION: **Oral**

CONGRESS: **7th SESAME JORDANIAN WORKSHOP**

COUNTRY: **Jordan, The University of Jordan**

DATE: **5 May**

2010

AUTHOR/S: **M.A. AlDamen and S.F. Haddad**

TITLE: Polyoxometalates with Umbrella Symmetry

PARTICIPATION: **Poster**

CONGRESS: **EuAsC₂S-11**

COUNTRY: **Dead Sea, Jordan**

DATE: **6-10 October**

AUTHOR/S: **M.A. AlDamen**

TITLE: 60th Meeting of Nobel Laureates in Lindau

PARTICIPATION: **COMSTECH (Organization of Islamic Conference Standing Committee on Scientific and Technological Cooperation) fellowship**

CONGRESS: **60th Meeting of Nobel Laureates in Lindau**

COUNTRY: **Lindau, Germany**

DATE: **27 June - 2 July**

2009

AUTHOR/S: **M.A. AlDamen**

TITLE: Polyoxometalates – A Single-Molecule Magnet Tale
PARTICIPATION: **Poster**
CONGRESS: **9th Jordanian conference on Chemistry**
COUNTRY: **Jordan (Zarqa)**
DATE: **28 April 2009**

2007

AUTHOR/S: **M.A. AlDamen, J. Sanchez, J.M. Clemente-Juan, E. Coronado, A. Gaita**
TITLE: **Fragmentador of Polyoxometalates**
PARTICIPATION: **Oral**
CONGRESS: **COST meeting D37-DeciQ**
COUNTRY: **Toulouse, France**
DATE: **21-22 May**

2006

AUTHOR/S: **M.A. AlDamen, J.M. Clemente-Juan, E. Coronado, A. Gaita**
TITLE: **Magnetic Properties of High-Nuclearity Mixed-Valence Clusters**
PARTICIPATION: **Oral**
CONGRESS: **European Conference on Molecular Magnetism, ECMM**
COUNTRY: **Tomar, Portugal**
DATE: **10-15 October**

AUTHOR/S: **Juan M. Clemente-Juan, A. Gaita-Ariño, M.A. AlDamen, E. Coronado, N. Suaud**
TITLE: **Evaluation of Effective Hamiltonians for High Nuclearity Magnetic Clusters**
PARTICIPATION: **Oral**
CONGRESS: **Indian-European Thematic Meeting on Computational Materials Science**
COUNTRY: **Bangalore, India**
DATE: **20-22 February**

AUTOR/S: **E. Coronado, N. Suaud, Juan M. Clemente-Juan, A. Gaita-Ariño, M.A. AlDamen,**
TITLE: **Mixed-Valence Polyoxometalates: From *Ab Initio* to Effective Hamiltonian**
PARTICIPATION: **Poster**
CONGRESS: **Gaussian Workshop**
COUNTRY: **Barcelona, Spain**
DATE: **6-9 June**

2005

AUTHOR/S **Juan M. Clemente-Juan, A. Gaita-Ariño, M.A. AlDamen, E. Coronado, N. Suaud, C. Calzado**
TITLE: **Magnetic Properties of High-Nuclearity Mixed-Valence Clusters**
PARTICIPATION: **Oral**
CONGRESS: **Internacional Symposium on Nano-structures and Physicochemical Properties of Polyoxometalates, Superclusters and Related Colloid Particles**
COUNTRY: **Lyon, France**
DATE: **11 - 13 July**

2004

AUTHOR/S: **E. Coronado, J.M. Clemente-Juan, A. Gaita-Ariño, M. A. AlDamen**
TITLE: ***Ab initio* Evaluation of Local Effective Interactions in A Bivanadyl Capped, Highly Reduced Keggin Polyanion.**
PARTICIPATION: **Oral**
CONGRESS: **VII Escuela Nacional De Materiales Moleculares.**
COUNTRY: **Boí Taull, Spain**
DATE: **29 March - 6 April**

SCIENTIFIC SCHOOLS / COURSES

| SCHOOL | INSTITUTION (Location) | DATE |
|--|---|-------------------------------|
| 1st Molcas Workshop | Lund University (Valencia Spain) | April 20-23, 2006 |
| Gaussian Workshop | CESCA, SGI y Gaussian, Inc. (Barcelona) | 20 hr: June 6-9, 2006 |
| 9th intensive European program "Physics and Chemistry of Multifunctional Materials | Genova University and Joseph Fourier Polytechnic University (Genova, Italy) | 35hr lectures, 35hr practical |
| Training course (Single X-ray Diffraction) | Agilent Technologies (Oxford, UK) | 28 November – 2 December 2011 |

**Other Experiences
(more than one month)**

| Experience | Institution | Date |
|---|--|------------------------------------|
| Utilization of some analytical instruments e.g.: AAS (Atomic Absorption Spectrometry), XRF (X-Ray Fluorescence), ICP (Inductive Coupled Plasma), y EAS (Emission Atomic Spectrometry), Two months in the wet lab. | Laboratories of RSS (Royal Scientific Society of Jordan) | Three months during 2000 |
| Using the X-ray single crystal diffractometer Rigaku CCD, full treatment (crystallization, using the machine and data manipulations) | Balqa applied University | One year experience during 2003 |
| Workstations© training of O2 del SGI Octane2 y del SGI, using softwares like Catalyst©, package© Cerius2 (Ligand, Ludi, QSAR, and Molecular simulations). | Pharmacy Department/University of Jordan | Four months experience during 2004 |
| Unix developing systems | ICMol/University of Valencia | 2005-2008 |

OTHER ACHIEVEMENTS and ACTIVITIES

Contribution to congress/Publisher articles with academic characters

1998-2001

1- AUTHOR/S: M. A. AlDamen

TITLE: " **Murad's Divisibility test** "

Presented in International Second conference on Smarandache Type Notions in Mathematics and Quantum Physics. December 21-24/2000 in university of Craiova Craiova, meeting of Rumania. Also, published in <http://www.primepuzzles.net>, (1998)

2- AUTHOR/S: M. A. AlDamen

TITLE: " **Murad's Generalization on Collatz's Sequences**"

REF. JOURNAL: *Dersat; A university of Jerash Journal*, **2001**, 6, 1

Further presented in International Second conference on Smarandache Type Notions in Mathematics and Quantum Physics. December 21-24/2000 in university of Craiova Craiova, meeting of Rumania. Also, presented in a meeting at Colombia, South Carolina.

<http://www.ams.org/notices/200104/columbia-prog.pdf>

and, published in <http://www.primepuzzles.net>, (1999)

3- AUTHOR/S: M. A. AlDamen

TITLE: " **Murad's Anti-Harshad Sequence** "

Published in <http://www.primepuzzles.net>, (2001)

4- AUTHOR/S: M. A. AlDamen

TITLE: " **Smarandache Notions (book series 14)**" (1998)

Faculty of Science Committees

- 1- Member of the technical committee for tenders faculty of science (chemicals and glassware) (2010-2012).
- 2- Member of the supply, installation, operation, and maintenance of X-ray equipment to the needs of the faculty of science (2010-2012).
- 3- Member of the department of chemistry undergraduates (2010-2013).
- 4- Development committee of the faculty of science 2010-2011, 2014-2015 (Rapporteur).
- 5- Member of the committee of public safety in the department of chemistry (2012-2013).
- 6- Member of the committee of (academic and industry) in faculty of science (2014-2015).
- 7- Member of supreme committee of accreditation in the University of Jordan (Rapporteur) (2014-2015).
- 8- Member of the committee of accreditation in the department of chemistry (2014-2015).
- 9- Member of study plan committee in faculty of science (2014-2015)
- 10- Member of study plan committee in faculty of science (2014-2015)
- 11- Member of Jordanian school books development committee (2014-2015).
- 12- Seminars Committees 2016-2017 (Rapporteur).
- 13- Member of Accreditation Committee in the department of chemistry (2016-2017)
- 14- Member of Accreditation Committee in the department of chemistry/University of Taibah (2017-)

Theses/Dissertations Supervision

Theoretical Study of the Charge-Transfer Interaction Of 1,4,5,8-Naphthalenetetrone (NTO) and 1,4,9,10-Anthracenetetrone (ATO) With Tetrathiafulvalene (TTF)

Supervisor/s: Murad A. AIDamen and Ehab Al-Shamaileh

Student Name: Ahmad Mohammad Ameen Al-Qatawneh

احمد محمد أمين القطاونة

Specialization: Physical Organic Chemistry

Level: Master

Year: 2010-6/2012

Systematic synthesis and structural characterization of novel sandwich polyoxometalate compounds with alkaline earth metals and lanthanide

Supervisor/s: Salim F. Haddad and Murad A. AIDamen

Student Name: Suheit A. I. Baniatta

سهير عبدالله ابراهيم بني عطا

Specialization: Inorganic Chemistry

Level: PhD

Year: 2011-2013

Complexation of Humic acid by heavy metals and their theoretical calculations.

Supervisor/s: Fawwaz Khalili and Murad A. AIDamen

Student Name: Ashraf Al-Saudi

أشرف منصور حسين المسيعدين

Specialization: Inorganic Chemistry; Soil chemistry and Computational Chemistry,

Level: PhD

Year: 2011-2013

ياسين عطية الحارثي

Synthesis and Characterization of Organic Luminescent materials doped with metals

Supervisor/s: Hassan Juwahri and Murad A. AIDamen

Specialization: Inorganic Chemistry, Solid State Physics

Level: Master

Year: 2014-2016

Award/Prizes/Orders

Distinguished Researcher Award for 2011

Researcher: Murad A. AlDamen

Awarded by: The University of Jordan

Year: 2012

Extraordinary certificate for the best publications in the University of Jordan

Research Title: Ligand-Based Assessment of Factor Xa Binding Site Flexibility via Elaborate Pharmacophore Exploration and Genetic Algorithm-Based QSAR Modeling.

Authors: Mutasem O. Taha and Murad A. AlDamen

Awarded by: The University of Jordan

Year: 2005

Becas MAEC-AECID for foreign students

PhD scholarship 2004-2008

Funded Research/Project

Systematic synthesis, and crystal structure determination of sandwich polyoxometalates with transition metals

إعداد منهجي و تعيين البنية البلورية لمركبات جديدة من متعددة أكاسد الفلزات الشطانية مع فلزات انتقالي

Date: 2010-2011

Sponsors: the Deanship of Academic Research (The University of Jordan)

Participants: Murad A. AlDamen and Salim F. Haddad

Quantity_Jordanian_Dinar: 18,800 JOD

Systematic synthesis, and crystal structure determination of sandwich polyoxometalates wit lanthanide metals

إعداد منهجي و تعيين البنية البلورية لمركبات جديدة من متعددة أكاسد الفلزات الشطانية مع الانثانيدز

Date: 2012-2013

Sponsors: the Deanship of Academic Research (The University of Jordan)

Participants: Murad A. AlDamen and Salim F. Haddad

Quantity_Jordanian_Dinar: 4,000 JOD