

# Curriculum Vitae

## ANWAR ABO-AMER

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### Summary

Languages English, German, Arabic  
Permanent Residence JORDAN and Canada

### Education

2001- 2005 **Ph.D. in Inorganic Chemistry**, Institute of Chemistry,  
Duisburg-Essen University, Germany.

**Thesis Title:**

*"An Innovative Method for Generating Iodine(V and III)-  
Fluorine Bonds and Contributions to the Reactivity of Fluoro-  
roorganoiodine(III) Fluorides and Related Compounds"*

1994 - 1998 **M.Sc. in Inorganic Chemistry**, Department of Chemistry,  
Al al-Bayt University, Jordan, July 1998.

**Thesis Title**

*"Synthesis and study of transition metal complexes containing  
mixed ligands of chemotherapeutic impacts"*

1987 - 1991 **B.Sc. in Chemistry**, Department of Chemistry, Yarmook  
University, Jordan, 1991

## Experience

<b>Sept 2008 – Jan 2024</b>	<b>Faculty member of Chemistry department (Inorganic)</b> , Faculty of Science, Al al-Bayt University, Al-Mafraq, Jordan
<b>Oct 2007 – Sept 2008</b>	<b>Assistant Professor of Inorganic Chemistry</b> , Faculty of Pharmacy, Alzaytoonah University, Amman, Jordan
<b>Feb 2007 – Oct 2007</b>	<b>Postdoc</b> , Department of Chemistry and biochemistry, University of Lethbridge, Alberta, Canada
<b>Jan 2005 – June 2006</b>	<b>Teaching and Researcher Assistant</b> , Department of Inorganic Chemistry, Institute of Chemistry, Duisburg-Essen University, Germany
<b>July 2001 – Jan 2005</b>	<b>Research Assistant</b> , Department of Inorganic Chemistry, Institute of Chemistry, Duisburg-Essen University, Germany
<b>March 2000 – May 2001</b>	<b>Teaching Assistant</b> , Department of chemistry, Al al-Bayt University, Jordan
<b>Sept. 1992 – March 2000</b>	<b>Teacher</b> , Al-Mafraq Secondary School (Gov.), Jordan

## Honors and Fellowships

- King Abdullah II Prize, Master Degree, Al al-Bayt University, Jordan, 1998
- PhD Fellowship ( Deutsche Forschungsgemeinschaft (DFG)), Germany, 2001-2005
- Postdoc Fellowship, Lethbridge University, Canada, Feb 2007
- Visiting Professor, University of Western Ontario, June/2008 –Oct/2008
- Visiting Professor, University of Western Ontario, June/2009 –Oct/2009
- Visiting Professor, University of Western Ontario, June/2010 –Oct/2010
- Visiting Professor, University of Western Ontario, June/2011 –Oct/2011
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- Visiting Professor, University of Western Ontario, June/2013 –Oct/2013
- Visiting Professor, University of Western Ontario, June/2014 –Oct/2014
- Visiting Professor, University of Western Ontario, June/2015 –Oct/2015
- **Sabbatical visiting Professor, University of Western Ontario, June/2016 –Oct/2018**
- Visiting Professor, University of Western Ontario, June/2019 –Oct/2019
- Visiting Professor, University of Western Ontario, June/2020 –Oct/2020
- Visiting Professor, University of Western Ontario, June/2021 –Oct/2021

- Visiting Professor, University of Western Ontario, June/2022 –Oct/2022
- Visiting Professor, University of Western Ontario, June/2023 –Oct/2023
- Summer Visiting Professor, University of Western Ontario, June/2015 –2024

## List of Publications, Presentations and Conferences

### Publications

- 1) **Platinum complexes with pyridyl derivatives of 1,2,4-triazole, Anwar Abo-Amer, Paul D. Boyle, and Richard J. Puddephatt, Can. J. Chem. 103: 2–9 (2025)|**
- 2) Organoplatinum Chemistry Related to Alkane Oxidation: The Effect of a Nitro Substituent in Ligands Having an Appended Phenol Group, **Anwar Abo-Amer, Mohamed E. Moustafa, Paul D. Boyle and Richard J. Puddephatt**, *Inorganics* (2024), 12, 32
- 3) The remarkable effects of a ligand nitro substituent in organoplatinum chemistry related to activation of dioxygen or methane, Amer, **Anwar; Boyle, Paul D.; Puddephatt, Richard J. Polyhedron, (2022)**, 217, 115722
- 4) Platinum complexes from pyridine-imine ligands with pendent functional groups **Abo-Amer, Anwar; Boyle, Paul D.; Puddephatt, Richard J. Inorganica Chimica Acta** (2021), 522, 120387
- 5) Push-pull ligands and the oxidation of monomethylplatinum(II) complexes with oxygen or hydrogen peroxide, Abo-Amer, Anwar; Boyle, Paul D.; Puddephatt, Richard J. *Inorganica Chimica Acta* (2020), 507, 11958
- 6) Push-pull ligands to enhance the oxygen activation step in catalytic oxidation with platinum complexes, Abo-Amer, Anwar; Boyle, Paul D.; Puddephatt, Richard J. *Inorganica Chimica Acta* (2018), 473, 51-59
- 7) Oxidation of a dimethyl platinum(II) complex with xenon difluoride: The important role of solvent, Abo-Amer, Anwar; Boyle, Paul D.; Puddephatt, Richard J. *Inorganic Chemistry Communications* (2015), 61, 193-19
- 8) The supramolecular chemistry of organoplatinum complexes containing amide or alcohol functional groups, Abo-Amer, Anwar; Boyle, Paul D.; Puddephatt, Richard J. *Journal of Organometallic Chemistry* (2014), 770, 79-84
- 9) 3-Bromo-N-(3,5-di-tert-butylphenyl)propanamide. Abo-Amer, Anwar; Al-Refai, Mahmoud; Puddephatt, Richard J.; Ali, Basem F. *Acta Crystallographica, Section E: Structure Reports Online* (2014), 70(7), o770
- 10) Supramolecular Chemistry of Organoplatinum(IV) Complexes Bearing Ligands with Remote Carboxylic Acid Substituents, Abo-Amer, Anwar; Puddephatt, Richard J. *Journal of Inorganic and Organometallic Polymers and Materials* (2014), 24(1), 114-120

- 11) Synthesis and Self-Association of Organoplatinum(IV) Boronic Acids. Safa, Muhieddine A.; Abo-Amer, Anwar; Borecki, Aneta; Cooper, Benjamin F. T.; Puddephatt, Richard J. *Organometallics* (2012), 31(7), 2675-2681
- 12) The role of solvent in organometallic chemistry - Oxidative addition with dichloromethane or chloroform. Abo-Amer, Anwar; McCready, Matthew S.; Zhang, Fenbao; Puddephatt, Richard J. *Canadian Journal of Chemistry* (2012), 90(1), 46-54.
- 13) Reactivity and mechanism in the ring-opening of cyclopropylmethylplatinum(IV) complexes. Abo-Amer, Anwar; Puddephatt, Richard J. *Inorganic Chemistry Communications* (2011), 14(1), 111-114
- 14) Microwave-assisted synthesis and antioxidant properties of some new 1,2,4-triazole derivatives Al-Soud, Yaseen A.; Mohammed, Hamdoon A.; Abo-Amer, Anwar. *Jordan Journal of Chemistry* (2010), 5(2), 119-129
- 15) *cis*-Dimethylbis(triphenylarsine)platinum(II). Abo-Amer, Anwar. *Acta Crystallographica, Section E: Structure Reports Online* (2010), 66(2), m172, Sm172/1-Sm172/8.
- 16) Solid-state NMR spectroscopy of xenon and iodine fluorides. Gerken, Michael; Abo-Amer, Anwar; Hazendonk, Paul; Iuga, Adriana; Mack, Johnathan P.; Nieboer, Jared; Schrobilgen, Gary J.; Tramsek, Melita; Zemva, Boris. *Abstracts of Papers, 234th ACS National Meeting, Boston, MA, United States, August 19-23, 2007* (2007), FLUO-039
- 17) Bromo-N-(3,5-di-tert-butyl-phen-yl)propanamide. Abo-Amer Anwar; Al-Refai Mahmoud; Ali Basem F; Puddephatt Richard J. *Acta crystallographica. Section E, Structure reports online* (2014), 70(Pt 7), o770
- 18) *cis*-Dimethyl-bis(triphenyl-arsine)platinum(II). Abo-Amer Anwar. *Acta crystallographica. Section E, Structure reports online* (2010), 66(Pt 2), m172
- 19) *“The role of solvent in organometallic chemistry - Oxidative addition with dichloromethane or chloroform“*, Abo-Amer, Anwar; McCready, Matthew S.; Zhang, Fenbao; Puddephatt, Richard J. *Canadian Journal of Chemistry* (2012), 90(1), 46-54.
- 20) *“Reactivity and mechanism in the ring-opening of cyclopropylmethylplatinum(IV) complexes“*, Abo-Amer, Anwar; Puddephatt, Richard J. *Inorganic Chemistry Communications* (2011), 14(1), 111-114
- 21) *“Microwave-assisted synthesis and antioxidant properties of some new 1,2,4-triazole derivatives“*, By Al-Soud, Yaseen A.; Mohammed, Hamdoon A.; Abo-Amer, Anwar, *Journal of Chemistry* (2010), 5(2), 119-129
- 22) *“cis-Dimethylbis(triphenylarsine)platinum(II)“*, Abo-Amer, Anwar, *Acta Crystallographica, Section E: Structure Reports Online* (2010), E66(2), m172, Sm172/1-Sm172/8
- 23) *“From hypervalent xenon difluoride and aryl iodine(III) difluorides to onium salts: Scope and limitation of acidic fluoroorganic reagents in the synthesis of fluoroorgano xenon(II)“*

and iodine(III) onium salts". Anwar Abo-Amer, Hermann-Josef Frohn, Christoph Steinberg, and Ulrich Westphal, *J. Fluorine Chem.* 2006, 127, 1311-1323

- 24) "Polyfluoroorganotrifluoroborates and -difluoroboranes: interesting materials in fluoroorgano and fluoroorgano-element chemistry". Anwar Abo-Amer, Nicolay Yu. Adonin, Vadim V. Bardin, Petra Fritzen, Hermann-Josef Frohn and Christoph Steinberg, *J. Fluorine Chem.* 2004, 125, 1771-1778.
- 25) "Synthesis of 1,3,4-Mercapto-oxadiazole mono- and dinuclear copper (I) and copper (II) complexes and their microbiological activity". K. H. Al-Obaidi, R. Abu-El-Halawa, B. F. Ali, A. Abo-Amer, *Transition Metal Chem.* 2004, 29, 804-811.
- 26) "**Production of halogen fluorides and organohalogen fluorides**". **Hermann-Josef Frohn; Anwar Abo-Amer, (Germany). Ger. Offen. (2004), 4 pp. CODEN: GWXXBX DE 10232323 A1 20040205 Patent written in German. Application: DE 2002-10232323 20020717. CAN 140:148543 AN 2004:95301 .**

### **Presentations and Conferences**

- 1) **M. Gerken, A Abo-Amer, P. Hazendonk, A. Iuga, J. P. Mack, J. A. Nieboer, G. J. Schrobilgen, B. Zemva**, "Solid-state NMR spectroscopy of xenon and iodine fluorides", 234<sup>th</sup> ACS National Meeting, Boston, August 21-22, **2007**.
- 2) **H.-J. Frohn, A. Abo-Amer, et al.**, "From hypervalent xenon difluoride and iodine(III and V) fluorides to onium salts: Recent developments in fluoroorgano xenon(II) and iodine(III and V) chemistry", 231<sup>st</sup> ACS National Meeting, Atlanta, GA, March 26-30, **2006**.
- 3) **A. Abo-Amer, H.-J. Frohn, et al.**, "The introduction of polyfluoroorgano groups into XeF<sub>2</sub>: strength and limitation of the concept xenodecoration", XIV<sup>th</sup> European Symposium on Fluorine Chemistry, Poznan, Poland, July, **2004**.
- 4) **H.-J. Frohn, A. Abo-Amer, et al.**, "A new conceptual approach to generate hydrophilic surfaces on modified polyolefin polymers by fluorination with elemental fluorine", XIV<sup>th</sup> European Symposium on Fluorine Chemistry, Poznan, Poland, July, **2004**.
- 5) **A. Abo-Amer**, "A new method for preparation of Iodine pentafluoride." Paper presented at "Oster"-Kolloquium, Duisburg University / Germany, **May, 2003**.
- 6) **A. Abo-Amer**, "Synthesis and study of oxadiazole metal complexes and their application" Al al-Bayt University Scientific day / Jordan, May, **2001**.