

Curriculum Vitae

Personal Information:

Name: Mohammad Kamal Abbas Harb
Date and Place of Birth: 28/7/1980. Irbid, Jordan
Nationality: Jordanian
Marital Status: Married
Gender: Male



Contact:

Address: Umm Al-Qura University, Makkah, Saudi Arabia.
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Education:

03/2007 – 07/2010 Friedrich-Schiller University Jena-Germany

- PhD degree in organometallic chemistry.
- PhD. Thesis- Novel Diiron Dichalcogenolato Complexes: Models for Active Site of [FeFe]-Hydrogenase.
- DAAD fellowship from 04/2008 till 07/2010.

10/2002 – 03/2006 Jordan university of science and technology Irbid-Jordan

- Master degree in analytical chemistry.
- Master Thesis- Determination of Selected Heavy Metals in Air Samples from Northern Part of Jordan.

10/1998 – 06/2002 Jordan university of science and technology Irbid-Jordan

- Bachelor degree in applied chemistry.

07/1997 – 07/1998 Dear Abi Said secondary school Irbid-Jordan

- High school, scientific stream.

Languages:

Arabic, English and German.

Record of Employment & Teaching Experience:

09.2015-present	<p><i>Assistant professor</i> at Al-Zaytoonah University of Jordan, Jordan</p> <p>Main responsibilities:</p> <ul style="list-style-type: none">• Taught and coordinate Physical Pharmacy course.• Taught General Chemistry.• Taught General Chemistry Lab.• Taught Analytical Chemistry Lab.
09.2012-09.2015	<p><i>Assistant professor</i> at Umm Al-Qura University, Saudi Arabia.</p> <p>Teams director and Co-founder of Al-Qunfudah Center for Scientific Research.</p> <p>Main responsibilities:</p> <ul style="list-style-type: none">• Taught and coordinate inorganic Chemistry I and II• Taught coordinate Spectroscopic Analysis of Organic Compounds• Taught and coordinate General Chemistry I• Taught and coordinate Separation Methods• Taught and coordinate Coordination Chemistry• Taught Analytical Chemistry I• Running two research teams on alternative and green energy and environmental chemistry.
09.2010-09.2012	<p><i>Researcher and lecturer</i> at Jordan University of Science and Technology</p> <p>Main responsibilities:</p> <ul style="list-style-type: none">• Taught General Chemistry I and II• Taught Inorganic Chemistry I• Taught Organometallics Course• Co-supervised three MSc projects• Running research program on [FeFe]-hydrogenase model complexes
11.2004-03.2007	<p><i>Lab tech.</i> in Kemira Arab Potash Company Ltd.</p>

09.2002-09.2004

Teacher assistant at Jordan University of Science and Technology

Main responsibilities:

- Taught General Chemistry Lab
- Taught Inorganic Chemistry Lab I
- Taught Analytical chemistry Lab

Publications:

1. Mohammad K. Harb, Effect of Oxygen-Containing Diselenolato Bridging Moieties on the Air Stability of [FeFe]-Hydrogenase Model Complexes, **2015**, Under Review.
2. Mohammad Ebqa'ai, Mohammad K. Harb, F. Faidi, Mohammed S. Al Rashdi, Nafee I. Alothyqi, Bashar Ibrahim, Heavy metals concentrations of street dust and its human health implications in Dammam province, Kingdom of Saudi Arabia Water, Air, & Soil Pollution **2015**, Under Review.
3. Mohammad K. Harb, Mohammad Ebqa'ai, Awad Al-Rashidi, Bakri H. Alaziqi, Mohammed Al Rashdi, Bashar Ibrahim, Investigation of selected heavy metals in street and house dust from Al-Qunfudah, KSA, Environmental earth sciences **2015**, DOI: 10.1007/s12665-015-4184-2.
4. Mohammad K. Harb, Assessment of selected heavy metals in street dust samples from Jazan City, Kingdom of Saudi Arabia (KSA), Journal of Environmental Science and Engineering A **2014**, 3, 211-218.
5. Mohammad K. Harb, Ahmad Daraosheh, Helmar Görls, Elliott R. Smith, G. Joel Meyer, Matthew T. Swenson, Takahiro Sakamoto, Richard S. Glass, Dennis L. Lichtenberger, Dennis H. Evans, Mohammad El-khateeb, Wolfgang Weigand. Effects of Alkane Linker Length and Chalcogen Character in [FeFe]-Hydrogenase Inspired Compounds, *Heteroatom Chemistry* **2014**, 25 (6), 592-606.
6. Qutaiba Abu-Salem, Mohammad K. Harb, Cécilia Maichle-Mößmer, Manfred Steimann, Wolfgang Voelter, Synthesis and Structural Characterization of a

- Gold(I) Complex Containing 1,3-Dimethylcyanurate Ligand, *Arabian Journal of Chemistry* **2014**, doi.org/10.1016/j.arabjc.2014.05.027.
7. Mohammad K. Harb, Preparation and Characterization of Diiron Diselenolato Complexes Containing a Dioxane Ring as Models for [FeFe]-Hydrogenases, *Transition Met Chem* **2014**, 39 (6), 647-651.
 8. Mohammad El-khateeb, Mohammad K. Harb, Qutaiba Abu-Salem, Helmar Görls, Wolfgang Weigand, Substitution Reactions of [FeFe]-Hydrogenase Model Complexes Containing Diselenolate Bridges, *Polyhedron* **2013**, 61, 1–5.
 9. Laith Almazahreh, Mohammad El-khateeb, Mohammad K. Harb, Helmar Görls, Wolfgang Weigand. Synthesis and Characterization of Platinum and Palladium Pyrrolidinedithiocarbamate Complexes, *Transition Met Chem* **2013**, 38, 377–383.
 10. Mohammad K. Harb, Jochen Windhager, Tobias Niksch, Helmar Görls, Takahiro Sakamoto, Elliott R. Smith, Richard S. Glass, Dennis L. Lichtenberger, Dennis H. Evans, Mohammad El-khateeb, Wolfgang Weigand. Comparison of S and Se Dichalcogenolato [FeFe]-Hydrogenase Models with Central S and Se Atoms in the Bridgehead Chain, *Tetrahedron* **2012**, 68, 10592-10599.
 11. Mohammad K. Harb, U.-P. Apfel, T. Sakamoto, M. El-khateeb, W. Weigand. Diiron Dichalcogenolato (Se and Te) Complexes: Models for Active Site of [FeFe]-Hydrogenase, *Eur. J. Inorg. Chem.* **2011**, 7, 986-993.
 12. Mohammad K. Harb, Helmar Görls, Taka Sakamoto, Greg A. N. Felton, Dennis H. Evans, Richard S. Glass, Dennis L. Lichtenberger, Mohammad El-khateeb, Wolfgang Weigand. Synthesis and Characterization of [FeFe]-Hydrogenases Models with Bridging Moieties Containing (S, Se) and (S, Te), *Eur. J. Inorg. Chem.* **2010**, 25, 3976-3985.
 13. Ahmad Gharaibeh, Abdul-Wahab El-Rjoob, Mohammad Harb. Determination of Selected Heavy Metals in Air Samples from Northern Part of Jordan, *Environmental Monitoring and Assessment* **2010**, 160, 425-429.
 14. Mohammad K. Harb, Ulf-Peter Apfel, Joachim Kubel, Helmar Görls, Greg A. N. Felton, Taka Sakamoto, Dennis H. Evans, Richard S. Glass, Dennis L. Lichtenberger, Mohammad El-khateeb, Wolfgang Weigand. Preparation and Characterization of Homologous Diiron Dithiolato, Diselenato and Ditellurato Complexes: [FeFe] Hydrogenase Models, *Organometallics* **2009**, 28, 6666–6675.

15. Ahmad Q. Daraosheh, Mohammad K. Harb, Jochen Windhager, Helmar Görls, Mohammad El-khateeb, and Wolfgang Weigand. Substitution Reactions at [FeFe] Hydrogenase Models Containing [2Fe3S] Assembly by Phosphine or Phosphite Ligands, *Organometallics* **2009**, 28, 6275–6280.
16. Mohammad K. Harb, Jochen Windhager, Ahmad Daraosheh, Helmar Görls, L. Tori Lockett, Noriko Okumura, Dennis H. Evans, Richard S. Glass, Dennis L. Lichtenberger, Mohammad El-khateeb, Wolfgang Weigand. Phosphane- and Phosphite-Substituted Diiron Diselenolato Complexes as Models for [FeFe]-Hydrogenases, *Eur. J. Inorg. Chem.* **2009**, 3414–3420.
17. Mohammad K. Harb, Tobias Nicksch, Jochen Windhager, Helmar Görls, Rudolf Holze, L. Tori Lockett, Noriko Okumura, Dennis H. Evans, Richard S. Glass, Dennis L. Lichtenberger, Mohammad El-khateeb, Wolfgang Weigand. Synthesis and Characterization of Diiron Diselenolato Complexes Including Iron Hydrogenase Models, *Organometallics* **2009**, 28, 1039-1048.
18. Mohammad El-khateeb, Mousa Al-Noaimi, Mohammad Harb, Helmar Görls, Wolfgang Weigand. Half-Sandwich Ruthenium Complexes of Heterocyclic-Dithiocarboxylato Ligands, *Jordan Journal of Chemistry* **2008**, 3, 147-153.

Honours and Awards

04.2008-07.2010	The German Academic Exchange Service (DAAD) fellowship for PhD studies.
09.2010-09.2012	The Centre for International Migration and Development (CIM).
09.2014-09.2015	Institute of Scientific Research and Revival of Islamic Heritage at Umm Al-Qura University (Project ID: 43405042).

Membership and Participations

- Participating in International Exhibition and Conference on Higher Education, 15-17 April **2014**, Riyadh, KSA.
- Participating in ArabLab2014, 17-20 March **2014**, Dubai, United Arab Emeritus.
- Training course of atomic absorption (AA) spectroscopy at Shimadzu Middle East and Africa FZE. Dec. **2013**, Istanbul-Turkey.
- Training course of HPLC at Shimadzu Middle East and Africa FZE., December **2013**, Istanbul-Turkey.
- Participating in 11th Eurasia conference on chemical sciences, October **2010**, The Dead Sea, Jordan.
- Participating as young researcher in 59th meeting of Nobel Laureates **2009**, Lindau, Germany.
- Participating in organometallic complexes containing S or Se Ligands: Irbid Jena relationship conference **2008**, Irbid, Jordan.
- Participating in meeting of DAAD scholarship holders in the field of chemistry, **2008**, Heidelberg, Germany.

- Participating in the 12th Arab Chemistry Conference and 5th Jordan Chemistry conference, **2003**, Amman, Jordan.
- A member in the Jordan Chemical Society, **2002**.

References

1. Prof. Dr. Wolfgang Weigand

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2. Prof. Dr. Mohammad Al-Khateeb

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