

## CURRICULUM VITAE

Hanan Abdel-Karim Qaseer  
Title: Professor  
Bioinorganic Chemistry, Organometallic,  
Asymmetric Synthesis by Chiral Catalysts  
Department of Chemistry  
Faculty of Science  
Mu'tah University  
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### Education

- Ph. D. in Chemistry  
Loyola University of Chicago  
Chicago, USA  
**Ph.D. DISSERTATION:-**  
Ionic Interaction Studies of Bovine  
Copper, Zinc-Superoxide Dismutase
- M. Sc in Chemistry  
Yarmouk University  
Irbid – Jordan  
**MS. THESIS:-**  
Reactions of '-biquinoline, -( '-  
pyridyl)quinoline and -di( '-pyridyl)-  
-s-tetrazine with some metal salts  
and complexes of group VIII elements
- B. Sc in Chemistry  
Yarmouk University  
Irbid - Jordan

**Research Interest** Asymmetric Synthesis by Using Chiral Palladium(II) Catalysts.  
Chiral Drug Synthesis by mean of Chirotechnology.  
Inorganic and Organometallic Synthesis.  
Biological Activity Studies of Transition Metal Complexes.

**Graduate Students Supervision** Co-supervised two master student.  
Member in examining committees for six students at Mu'tah and other Universities in Jordan.

## Work Experience

- Present Vice Dean of the Faculty of Science  
Mu'tah University
- Present Professor, Department of Chemistry, Mu'tah University,  
Mu'tah – Karak, Jordan
- Associate Professor, Department of Chemistry, Mu'tah  
University, Mu'tah – Karak, Jordan
- Associate Professor, Department of Chemistry, Science  
(Sabbatical year) College Girls, Madina Monawara, KSA.
- Chair Person of The Chemistry Department, Mu'tah  
University, Mu'tah - Karak, Jordan
- Assistance Professor, Department of Chemistry, Mu'tah  
University, Mu'tah – Karak, Jordan
- Summer Visiting Professor  
Department of Chemistry  
Loyola University of Chicago  
Chicago, IL
- Summer
- Summer
- Summer
- Summer
- Summer

## Courses Taught

General Chemistry (Chem. , , , )  
General – Organic Chemistry for  
Medicine Students (Chem. )  
Inorganic Chemistry-I, -II and practical (Chem. , , )  
Inorganic Chemistry-I for non major students (Chem. )  
Bioinorganic Chemistry (Chem. )  
Special Topic in Inorganic Chemistry (Chem. , )  
Group Theory (Chem. )  
Research in Catalysis & Organometallic Chemistry  
(Chem )

## Publications:

1. Zaghal, M. H.; **Qaseer, H. A.**; El-Qisairi, A. K.; Alshahateet, S. F.; Shatnawi, M. Y.; Dawe, L. N. "Solid State Structure of  $\pi$ -Dihydro- $\alpha$ -di( $\pi$ -pyridyl)- $\sigma$ -H-Cyclopenta[d] Pyridazine", *In Press, Journal of Chemical Crystallography*.
2. El-Qisairi, A. K.; **Qaseer, H. A.**; Fennelly, J. P.; Chiarelli, M. P.; Henry, P. M. "Asymmetric  $\alpha$ -disubstitution of  $\pi$ -dienes: Palladium(II)-catalyzed formation of azido-ketones from  $\pi$ -cyclohexadiene", *Catal. Commun.*, 2004, 5, 1171-1172.
3. Zaitoun, M. A.; Kim, T.; Jaradat, Q. M.; Momani, K.; **Qaseer, H. A.**; El-Qisairi, A. K.; Qudah, A.; Radwan, N. E. "Luminescence properties of europium (III) complexes trapped in sol-gel glass", *J. Lumin.*, 2004, 108, 1-10.
4. El-Qisairi, A. K.; **Qaseer, H. A.**; Zaghal, M. H.; Magaireh, S.; Saymeh, R.; Yousef, Y. A. "Synthesis, Characterization and NMR Studies of some  $\pi$ -Diaminopyridine Complexes with Palladium(II), Rhodium(III) and Mercury(II)" *Jord. J. Chem.*, 2004, 2, 200-214.
5. El-Qisairi, A. K.; **Qaseer, H. A.** "Synthesis, characterization of  $\pi$ -( $\pi$ -pyridyl)- $\sigma$ -tetrazine complexes with gold(III)", *J. Applied Sci.*, 2004, 4, 1-10.
6. El-Qisairi, A. K., **Qaseer, H. A.** "Bromination of ketones by palladium(II). An asymmetric  $\alpha$ -bromoketones catalytically synthesized by a mono palladium(II) catalyst", *Jord. J. Chem.*, 2004, 2, 1-10.
7. El-Qisairi, A. K.; **Qaseer, H. A.**; Zaghal, M. H.; Kana'n, S. M.; Atfah, M. A., "Complexes of Substituted Dipyridylpyridazines with Palladium(II) and Platinum(II)", *J. Coord. Chem.*, 2004, 57, 1-10.
8. **Qaseer, H. A.**, "A Bimetallic Palladium(II) Catalyzed Synthesis of  $\alpha$ -Dibromo Compounds", *Polish J. Chem.*, 2004, 78, 1-10.
9. **Qaseer, H. A.**; El-Qisairi, A. K.; Zaghal, M. H., "Synthesis and Characterization of Palladium(II) Complexes with  $\pi$ -( $\pi$ -Pyridyl)quinoline. Catalytic Air Oxidation of Olefins by Palladium(II) Complexes", *Z. Anorg. Allg. Chem.*, 2004, 630, 1-10.
10. **Qaseer, H. A.** "Rhodium(III) Complexes with  $\pi$ -( $\pi$ -Pyridyl)quinoline. Synthesis and Spectroscopic Characterization" *Croat. Chem. Acta.*, 2004, 77, 1-10.
11. **Qaseer, H. A.**; Al-Rawashdeh, N.; El-Qisairi, A. K., "Synthesis and Spectroscopic Characteristic of Mercury(II) Complexes with  $\pi$ -( $\pi$ -Pyridyl)quinoline", *Acta Chim Slov.*, 2004, 57, 1-10.
12. El-Qisairi, A.; **Qaseer, H. A.**; Katsigras, G.; Lorenzi, P.; Trivedi, U.; Tracz, S.; Hartman, A.; Miller, J. A.; Henry, P. M., "New Palladium(II)-Catalyzed Asymmetric  $\alpha$ -Dibromo Synthesis", *Org. Lett.*, 2004, 6, 1-4.
13. El-Qisairi, A.; **Qaseer, H. A.**; Henry, P. M., "Oxidation of Olefins by Palladium(II). Effect of Reaction Conditions, Substructure and Chiral Ligand on the Palladium(II) Catalyzed Asymmetric Chlorohydrin Synthesis", *J. Organomet. Chem.*, 2004, 686, 1-10.
14. El-Qisairi, A.; **Qaseer, H. A.**; Henry, P. M., "An Air Oxidizable Bimetallic Palladium(II) Catalyst for Asymmetric Allylic Oxidation of Olefins in Acetic Acid", *Tetrahedron Lett.*, 2004, 45, 1-4.
15. El-Qisairi, A. K.; **Qaseer, H. A.**, "Oxidation of Ketone by Palladium(II).  $\alpha$ -Hydroxy Ketone Synthesis Catalyzed by a Bimetallic Palladium(II) Complex", *J. Organomet. Chem.*, 2004, 686, 1-10.

- Kana'n, G. J.; **Qaseer, H. A.**; El-Qisairi, A. K.; Zaghal, M. H.; Al-Najar, H. "Chemically Induced Mutagenesis in *Aspergillus nidulans* Using *cis*-[Pd(biq)Cl] as Compared with NTG and Spontaneous Treatments" *Mu'tah Lil-Buhuth wad-Dirasat Journal, Mu'tah University, Jordan* , , - .
- Huffer, D. A.; Chiarelli, M. P.; **Qaseer, H. A.**; El-Qisairi, A. K.; Zaghal, M. H.; Al-Rawashdeh, N., "Analysis of Palladium Complexes Containing Nitrogen Heterocyclic Ligands by Electrospray Ionization and Ion Trap Mass Spectrometry", *Conference Paper, <sup>th</sup> Annual ASMS Conference in Orlando, Florida, USA.* .
- ١٨. **Qaseer, H. A.**, "Synthesis and Characterization of New Palladium(II) Complexes via Substitution Reaction of *cis*-[Pd(biq)Cl<sub>2</sub>]", *Inter. J. Chem.*, ٢٠٠١, ١١, ١١٣-١٢١.
- ١٩. Zaghal, M.H.; Abu-Obied, M.; Atfah, A.; El-Qisairi, A.; **Qaseer, H.A.**; Ali, B.F., "Substituted Dipyritylpyridazine Rhodium(III) complexes", *Transition Metal Chemistry*, ٢٠٠١, ٢٦, ٥١٧-٥٢٢.
- ٢٠. Zaghal, M. H.; El-Qisairi, A.; **Qaseer, H. A.**, "Preparation of New ٢,٢'-Bipyrimidine Complexes of Palladium(II) via Substitution Reactions. Part II. High Resolution <sup>1</sup>H and <sup>13</sup>C NMR and Mass Spectral Studies", *Abhath Al-Yarmouk*, ١٩٩٩, ١, ٢٩-٤٧.
- ٢١. Zaghal, M. H.; **Qaseer, H. A.**, "Complexes of palladium, platinum and rhodium with ٢,٢'-biquinoline, ٢-(٢'-pyridyl)quinoline", *Transition Metal Chemistry*, ١٩٩١, ١٦, ٣٩-٤٤.
- ٢٢. Zaghal, M. H.; **Qaseer, H. A.**, "Complexes of ٢-(٢'-pyridyl)quinoline and ٢,٦-di(٤'-pyridyl)-s-tetrazine", *Inorganica Chimica acta*, ١٩٨٩, ١٦٣١٩٣-٢٠٠.