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Date and place of Birth: 15.06.1974 in Kuwait

Nationality: Jordanian

Status: Married with one son and three daughters

Education

Ph.D., Universitaet Tuebingen, Tuebingen (Germany), 1998 – 2001

Date degree awarded: 22.05.2001

Subject: (Major) Inorganic Chemistry
 (Specification): Organometallic Chemistry
Dissertation Title: Synthesis, Structure, and Host-Guest Investigations on Self-Assembled Nonwater-Soluble and Water-Soluble Multiple Bridged Platinacyclophanes
Advisor: Prof. Dr. E. Lindner
Average: Dissertation: Excellent with honor
 Total average: Very good

M.Sc., University of Jordan, Amman (Jordan), 1995 – 1997

Date degree awarded: 31.08.1997

Subject: Chemistry
 (Specification): Natural Products-Organic Chemistry
Thesis Title: Chemical Constituents of Flora of Jordan. XII. Chemical Constituents of *Caparis spinosa*.
Advisor: Prof. Dr. S. Sabri; *Co-advisor:* Prof. Dr. M. El-Abadelah
Average: 3.77 out of 4; *Rating:* Excellent; *Rank:* 1st of the class

B.Sc., Mu'tah University, Karak (Jordan), 1992 – 1995

Date degree awarded: 14.06.1995

Major: Chemistry
Cumulative average: 85.55%
Overall assessment: Excellent; *Rank:* 1st of the class

The General Secondary Education Certificate Examination, Amman-(Jordan),. 1992

Percentage Average: 78.5%

Languages:

Arabic, English, and German

Experience

University/Institution (Employer)	From	To	Job Title/Rank (Position)	Inclusive duties	Type of Job
University of Jordan/ Amman, Jordan	09.05	now	Assistant Professor	Teaching and Research	Full time
University of Jordan/ Amman, Jordan	02.05	09.05	Full time lecturer	Teaching and Research	Full time
FMP-Berlin/ Berlin-Germany	07.04	09.04	Invited researcher	Research	Full time
Hashemite University/ Zarka, Jordan	09.03	02.05	Assistant Professor	Teaching and Research	Full time
Uni. Tuebingen- Germany	07.03	09.03	Invited researcher	Research	Part time
BASF/ Uni. Tuebingen- Germany	07.02	09.02	Invited researcher	Research	Full time
Hashemite University/ Zarka, Jordan	02.02	08.03	Full time lecturer (Assistant Professor)	Teaching and Research	Full time
BASF/ Uni. Tuebingen- Germany	07.01	02.02	Researcher and teaching assistant	Research and teaching	Full time
Uni. Tuebingen- Tuebingen/Germany	10.98	07.01	Teaching assistant	Teaching	Part time
Uni. Tuebingen- Tuebingen/Germany	07.98	10.98	Invited researcher	Research	Full time
Jordan Uni.- Amman/ Jordan	09.97	06.98	Research assistant	Research	Full time
Jordan Uni.- Amman/ Jordan	10.95	08.97	Teaching assistant	Teaching	Part time

Teaching: (courses taught)

University/Institution	Course title	Language of instruction
Uni. Jordan	General, Analytical, and organic Practical labs.	English
Uni Tuebingen	Practical Quantitative analysis	English/German
Uni Tuebingen	Practical Advanced Inorganic lab	English/German
Hashemite and Jordan University	General Chemistry (1) and (2)	English
Hashemite and Jordan University	Inorganic Chemistry (1) (introductory course)	English
Hashemite and Jordan University	Inorganic Chemistry (2) (coordination chem.)	English
Jordan University	Inorganic Chemistry (3) (chemistry Of elements)	English
Hashemite University	Radiochemistry	English
Jordan University	Organometallic Chemistry	English
Hashemite University	Industrial Chemistry	English
Hashemite and Jordan University	Practical General Chemistry Lab	English
Hashemite and Jordan University	Practical Analytical Chemistry Lab	English
Hashemite and Jordan University	Practical Inorganic Chemistry lab	English
Hashemite University	Seminar (chemical literature)	English
Hashemite University	Inorganic Reaction Mechanisms and Complexes (M. Sc. Level)	English

Teaching ability

- 1- Supramolecular chemistry (for both inorganic and organic student)
- 2- Advanced inorganic courses with the emphasize on the modern concept in this field
- 3- Spectroscopic identification of inorganic compounds
- 4- Environmental Chemistry
- 5- Polymer Chemistry
- 6- Catalysis

Equipments experience:

1. Nuclear Magnetic Resonance spectrometer (NMR) 250, 300, 400 and 600 MHz
2. Infrared (IR) spectrometer
3. Ultraviolet (UV) spectrophotometer.
4. Liquid Chromatography (LC) techniques
5. Gas Chromatography (GC)
6. Mass spectrometer (MS), LC-MS
7. Atomic Absorption spectrometer (AAS)
8. Microwave synthesizer
9. Elements analyzer

Honors and Fellowship

- Scholarship from DFG for 1st semester visit to Berlin, Germany. (01.12.2009 – 28.02.2010)
- Scholarship from DFG for summer-research visit to Berlin, Germany. (06.09 – 09.09)
- Scholarship from DFG for summer-research visit to Berlin, Germany. (06.08 – 09.08)
- Scholarship from DFG for short preparatory visit to Tuebingen, Germany. (02.08 – 02.08)
- Scholarship from DFG for summer-research visit to Tuebingen, Germany. (06.07 – 09.07)
- Grant from deanship of research in the University of Jordan. (2006-2009).
- Grant from University of Guelph, Guelph, Canada. (08.06 – 09.06).
- Scholarship from DAAD for summer-research visit to Tuebingen, Germany. (06.06 – 08.06).
- Grant from Institute of Molecular Pharmacology-FMP-Berlin, Germany. (07.04 – 09.04).
- Grant from deanship of research in the Hashemite University. (2003-2004).
- Grant from BASF (Ludwigshafen, Germany). (2001-2002).
- Scholarship from DFG (Deutscheforschungsgemeinschaft) (German Scientific Society), during Ph.D. work. (2000-2001).
- Scholarship from Landesgraduiertenförderungsgesetz (Outstanding-Graduated Students Scholarship), (Baden-Württemberg/Germany), For my second year Ph.D. work.(1999).
- Grant from the Higher Council for Science and Technology, Jordan, for research work at the chemistry department, University of Jordan, Amman-Jordan. (1997-1998).
- Teaching-assistant Scholarship from the University of Jordan during studying for the M.Sc. (1995-1997).
- First of Class-Scholarship from Mu'tah University in Jordan during studying for the B.Sc. (1992-1995).

Research interest

- 1- Supramolecular chemistry: investigation of the newly developed branch of chemistry which is involved the host/guest interactions and the application of simple chemical systems to mimic the more complicated biological systems.
- 2- Dispersion polymerization: development of olefin-polymerization catalysts that are soluble in water, and make dispersion polymers in water. These dispersions have several interesting applications in the industry.
- 3- Heterocycles: synthesis of new compounds which has biological interest and in organometallics.
- 4- Natural product: isolation and identification of active compounds in the medicinal plants which gives a new idea about disease treatments.

Projects (Funded)

- Developing new Fluorinated Platinum Phosphorus Complexes for the complexation of the Nobel gas, Xe. [DFG (Berlin-Germany)]
- Synthesis of novel derivatives of DO3A for the use in the MRI. [DAAD and DFG (Tuebingen-Germany)]
- Synthesis and characterization and catalytic activity of novel arene-bispyridyl-Ruthenium(II) deoxygenating catalysts. [University of Guelph (Guelph –Canada)]
- Development of some new isosters as anti-malarial drugs. [Institute of Molecular Pharmacology-FMP (Berlin-Germany)]
- Synthesis and catalytic activity of bis(triphenylphosphine)(diamine)ruthenium(II) catalysts for hydrogenation. [Deanship of research in the Hashemite University (Zarqa-Jordan)]
- Synthesis of new transition metal catalysis for water dispersion polymerization of butadiene. [BASF (Ludwigshafen-Germany)]

Projects (On-going)

- X-ray crystal studies of some benzene derivatives cations. [DFG (Berlin-Germany)].
- Synthesis and Properties of New Trifunctional Chelating Agent based on 1,4,7,10-tetraazacyclododecane-1,4,7-triacetic acid. [Deanship of research in the University of Jordan (Amman-Jordan)].
- Coordination properties of new bispyridylquinoline ligands. [The University of Jordan (Amman-Jordan)].

Publications:

1. M. A. Khanfar, I. Warad, M. A. AlDamen: “*Trans-dichloro-2,2-dimethylpropanediamine-bis(triphenylphosphine)ruthenium(II)*” Acta Cryst. E66 (2010) m731
2. R. A. Al-Qawasmeh, J. A. Zahra, M. A. Khanfar, Y. M. Al-Hiari, M. M. El-Abadelah, W. Voelter: “*A convenient synthesis of 1-alkyl-7-chloro-6-fluoro-3-nitro-4-quinolones*” Letters in Organic Chemistry 6 (2009) 511.
3. M. R. Al-Dweik, J. A. Zahra, M. A. Khanfar, M. M. El-Abadelah, K.-P. Zeller, W. Voelter: “*Heterocycles [h]-fused to 4-oxoquinoline-3-carboxylic acid. Part VII: synthesis of some 6-oxoimidazo[4,5-h]quinoline-7-carboxylic acids and esters*” Monatsh. Chem. , 140 (2009) 221.
4. K. A. Abu-Safieh, M. A. Khanfar, K. Eichele, B. F. Ali: “*4-(4-Chlorophenyl)-1-(2-hydroxy-2,2-diphenylacetyl)thiosemicarbazide*” Acta Cryst. E64 (2008) 2305.

5. M. A. Khanfar, B. A. Abu Thaher, J. A. Zahra, R. A. Al-Qawasmeh, M. M. El-Abadelah, W. Voelter: "*Metal-Assisted Oxidative Cyclization of Arylamidrazones II. Novel Synthesis of 1,4-Diaryl[1,2,4]triazino[6,5-h]quinolines*" Z. Naturforsch. 63b (2008) 1107.
6. M. A. Khanfar, K. A. Abu-Safieh, R. Al-Far, B. F. Ali, C. M.-Moessmer: "*(E)-N'-[(furan-2-yl)methylene]-2-hydroxy-2,2-diphenylacetohydrazide monohydrate: crystal structure and supramolecularity*" Acta Cryst. E63 (2007) 4078.
7. R. R. Dykeman, K. L. Luska, M. E. Thibault, M. D. Jones, M. Schlaf, M. Khanfar, N. J. Taylor, J. F. Britten, L. Harrington: "*Catalytic deoxygenation of terminal-diols under acidic aqueous conditions by the ruthenium complexes $[(\eta^6\text{-arene})\text{Ru}(X)(N\cap N)](\text{OTf})_n$, $X=\text{H}_2\text{O}$, H , $\eta^6\text{-arene} = p\text{-Me-iPr-C}_6\text{H}_4$, C_6Me_6 , $N\cap N = \text{bipy, phen, 6,6'-diamino-bipy, 2,9-diamino-phen}$, $n = 1, 2$) Influence of the ortho-amine substituents on catalytic activity*" Journal of Molecular Catalysis A, 277 (2007) 233.
8. K. A. Abu-Safieh, M. Khanfar, R. Al-Far, B. F. Ali, C. M.-Moessmer, A. Abu-Rayyan: "*5-Hydrazino-1,3-dimethyl-4-nitro-1H-pyrazole: crystal structure and supramolecularity*" Acta Cryst. E63 (2007) 3814.
9. J. A. Zahra, M. A. Khanfar, M. El-Abadelah, B. A. Abu Thaher, N. S. El-Abadla, W. Voelter: "*Synthesis of Some Ethyl 3-(Aryldiazonyl)-7-oxo-dihydropyrido[2,3-f]quinoxaline-8-carboxylates*" Z. Naturforsch. 62b (2007) 1045.
10. Y. M. Al-Hiari, M. A. Khanfar, A. M. Qaisi, M. Y. Abu Shuheil, M. M. El-Abadelah, R. Boese: "*Heterocycles [h]Fused Onto 4-Oxoquinolines. Part I. Synthesis of 6-Oxo-6,9-dihydro[1,2,5]oxadiazolo[3,4-h]-quinoline-7-carboxylic acid N-oxide*" Heterocycles 68 (2006) 1163.
11. E. Qnais, F. Abdulla, Y. Abu Ghalyun, M. Khanfar, M. Abu-Zarga: "*Effects of Kreysigine, an alkaloid Isolated from Colchicum decaisnea on ileum smooth muscle and intestinal motility of rats*" International Journal of Pharmacology 2 (2006) 451.
12. R. Abdel-Jalil, M. Khanfar, S. Al-Gharabli, M. El-Abadelah, K. Eickele, M. U. Anwar, W. Voelter: "*Metal-Assisted Oxidative Cyclization of Arylamidrazones II [1]. Novel Synthesis of 1,4-Diaryl[1,2,4]triazino[6,5-h]quinolines*" Heterocycles 65 (2005) 1821.
13. R. Abdel-Jalil, M. Khanfar, K. Abu Safieh, S. Al-Gharabli, M. El-Abadelah, W. Voelter: "*An Efficient One-Pot Synthesis of Pyrazolopyrimidines, Intermediates for Potential Phosphodiesterase Inhibitors*" Monatsh. Chem. 136 (2005) 619.
14. S. I. Al-Gharabli, M. Khanfar, J. Rademann: "*Microwave-assisted catch and release syntheses of peptide isostere via amino acyl ketenes*" Peptides, (2004) 184.
15. M. Abu-Zarga, S. S. Sabri, E. Hamed, M. A. Khanfar, K. -P. Zeller, Atta-ur-Rahman: "*A new Eudesmane type sesquiterpene from Inula Viscosa*" Nat. Prod. Res., 17 (2003) 99.
16. M. A. Khanfar, S. S. Sabri, M. Abu-Zarga, K. -P. Zeller: "*The Chemical Constituents of Capparis spinosa of Jordanian Origin*" Nat. Prod. Res., 17 (2003) 9.
17. M. M. El-Abadelah, S. S. Sabri, M. A. Khanfar, H. Yasin, W. Voelter: "*Synthesis and Properties of isoViagra. A 2-Methyl-2H-pyrazolo[4,3-d]pyrimidin-7-one Isomer of Viagra[®]*" J. Heterocyclic Chem. 39 (2002), 1055

18. A. Held, L. Kolb, M. A. Zuideveld, R. Thomann, S. Mecking, M. Schmid, R. Pietruschka, E. Lindner, M. Khanfar, M. Sunjuk: "Aqueous Polyketone Latices Prepared with Water-Insoluble Palladium(II) Catalysts" *Macromolecules* 35 (2002) 3342.
19. E. Lindner, M. Khanfar: "Preparation, properties, and reactions of metal-containing heterocycles. Part CVI. Three-dimensional water-soluble platinacyclophanes" *J. Organomet. Chem.* 630 (2001) 244.
20. E. Lindner, M. Khanfar, M. Steimann: "Trifunctional Phosphine Ligands and Their Application in the Synthesis of Novel Cage-Structured Platinacyclophanes and Trinuclear Chain-Like Platinacycles by Self-Assembly" *Eur. J. Inorg. Chem.* (2001) 2411.
21. E. Lindner, M. Khanfar: "Preparation, Properties, and Reactions of Metal-Containing Heterocycles; 102. A Three-Dimensional Triplatinacyclophane with an Eleven-Membered Bridge" *Phosphorus, Sulfur Silicon Relat. Elem.* 168 (2001) 359.
22. M. M. El-Abadelah, S. S. Sabri, M. A. Khanfar, W. Voelter, R. Abdel-Jalil, C. M. -Mössmer, Y. El-Abed: "Synthesis and Properties of α -Thiagra. A substituted 5-(2-Thienyl)pyrazolo[4,3-d]pyrimidin-7-one Bioisostere of Viagra" *Heterocycles* 53 (2000) 2643.
23. W. Voelter, M. A. Khanfar, M. M. El-Abadelah, S. S. Sabri: "X-ray Crystal Structure Analysis of Substituted 5-(2,3-Dihydro-7-benzofuryl)-2-methylpyrazolo[4,3-d]-pyrimidin-7-one (iso-Biagra)" *Z. Naturforsch.* 55b (2000) 1079.
24. W. Voelter, C. M. -Mössmer, M. A. Khanfar, M. M. El-Abadelah, S. S. Sabri: "X-ray Crystal Structure Analysis of Substituted 5-(2,3-Dihydro-7-benzofuryl)-1-methyl-pyrazolo[4,3-d]-pyrimidin-7-one (Biagra)" *Z. Naturforsch.* 54b (1999) 1602.
25. W. Voelter, M. M. El-Abadelah, S. S. Sabri, M. A. Khanfar: "Synthesis and Properties of Biagra A 5-(2,3-Dihydro-7-benzofuryl) Analog of Viagra" *Z. Naturforsch.* 54b (1999) 1469.
26. M. M. El-Abadelah, S. S. Sabri, M. A. Khanfar, W. Voelter, C. M. -Mössmer: "X-Ray Structure Analysis of iso-Sildenafil (iso-Viagra)" *Z. Naturforsch.* 54b (1999) 1323.

Patent

A Priority Patent Application-United States Provisional Patent Application-United States Provisional Patent Application 60/143,009 (field 09 july 1999). "Pyrazolopyrimidinones Derivatized by Multiply - Substituted Thiophene Moieties as Compounds for Erectile Dysfunction" M. M. El-Abadelah, S. S. Sabri, W. Voelter, M. A. Khanfar, R. J. Abdel-Jalil, Y. Al-Abed.

Other Activities

- *Supervision:*
 - Faculty of Science open day.
 - Students open day.
 - M. Sc. Thesis
 - Finished: Huthaifah Al-Malieh
 - On going: Faten Al-Roqub

- *Examination committees:*
 - Member of four M.Sc. examination committees for M.Sc. degree/thesis track.
 - Comprehensive examination committee for M.Sc. degree/comprehensive exam track.

- *Other committees:*
 - Development of the website committee (Faculty).
 - Development of the faculty members committee (Faculty).
 - Several tender committees for chemicals, glassware, equipments and advanced equipments. (University).
 - Social activities committee (Department).
 - Courses evaluation committee (Department).
 - Library committee (Department).
 - Computer facilities committee (Department).
 - Students' final results check committee (Department and Faculty).
 - Graduation day committee (Faculty)
 - First conference on the chemistry between academia and industry, organizing committee.

Selected Conferences and Workshops

1. Advances in Cancer Research: from the laboratory to the Clinic, An AACR international Conference, Dead Sea/ Jordan, 16 – 19.03.2008.
2. Nanostructured Advanced Materials, Amman/Jordan, 10–11.11.2008.
3. 6th SESAME Users' Meeting, Amman/Jordan, 17–19.11.2007.
4. 3rd Workshop of Jordanian SESAME Users', Amman/Jordan, 25.04.2007.
5. The 7th Jordanian Chemical Society Conference, Mafraq/Jordan, 01.03.2007.
6. DAAD Alumni Conference, Amman/Jordan, 22-23.11.2006.
7. The First Conference for JAQA, Amman/Jordan, 13-15.12.2005.
8. The Second Conference on Scientific Research, Amman/Jordan, 12.11.2005.
9. The Chemistry between the Academia and Industry, Amman/Jordan 01.10.2005.
10. Third International and Twenty-Eighth European Peptide Symposium, Prague, Czech Republic, 05-10.09.2004
11. The Sixth BASF Workshop on Catalytic Emulsion Polymerization, Tübingen/ Germany, 04.12.2002
12. Symposium 30 Jahre Metallorganische Chemie an der Eberhard Karls Universität Tübingen, Tübingen/ Germany, 11 – 12.10.2002
13. The Fifth BASF Workshop on Catalytic Emulsion Polymerization, Tübingen/ Germany, 28.08.2002
14. The Third BASF Workshop on Catalytic Emulsion Polymerization, Ludwigshafen/ Germany, 04.02.2002
15. The Second BASF Workshop on Catalytic Emulsion Polymerization, Tübingen/ Germany, 31.10.2001
16. The First BASF Workshop on Catalytic Emulsion Polymerization, Friburg/ Germany, 26.07.2001
17. The Seventh Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry, Alexandria/ Egypt, 22 – 28.03.2000
18. The Ninth international Conference on Inorganic Ring Systems, Saarbrücken/ Germany, 23 – 28.07.2000