

Curriculum Vitae

**

Dr. Fayez El Khatib **Ph.D. Physical-Organic Chemistry**



Personal Data

Date and place of birth: January 14, 1955 Amman-Jordan
Marital Status: Married, four children
Address: Jerash University Chemistry Department
postal code 26150
Jerash - Jordan
Phone number: 962-2-6350521
Fax: 962-2-6350520
Mobile:
Email: f.elkhatib@jpu.edu.jo

Present Status

Associate Professor; Chemistry Department - Jerash
University /Jerash - Jordan

Educational Background

Ph.D. Physical-Organic Chemistry
Université Paul Sabatier de Toulouse (France) (1986)
Title of thesis: New models of phosphorus ozonides:
Singlet oxygen generators
M.S. Chemistry (Diplôme d'Etudes Approfondies D.E.A)
Université Paul Sabatier de Toulouse (France) (1981)
B.S. Chemistry (Maîtrise de Chimie)
Université Paul Sabatier de Toulouse (France) (1980)

Research areas and techniques

- a) Synthesis of new patterns of Phosphite Ozonides.
- b) Kinetics of their decomposition using ^{31}P NMR Spectroscopy.
- c) Measurement of the yield of singlet oxygen generated by ozonide decomposition.
- d) Ozonation of iminophosphorane derivatives
- e) Instrumentation: Techniques of Organic Synthesis; Separation techniques GC, HPLC... NMR (^1H , ^{31}P , ^{19}F , ^{13}C), FTIR, UV, Fluorescence.

Employment History

- 1) Postdoctoral Research Associate 1987 Chemistry Department University of Texas at Arlington U.S.A
 - a) Synthesis of capacitive polymer (polyphosphazenes)
 - b) Synthesis of monomeric units for conducting polymers (phospholes).
- 2) Dean of Community College, Teaching Staff 1988-1994 Ibn-Khaldoon College Irbid – Jordan.
- 3) Part time lecturer The Higher College for the certification of teachers 1990-1991
- 4) Assistant Professor 1994- April 2008, Chemistry. Department Jerash University Jerash- Jordan
- 5) Associate Professor April 2008 - present

Teaching experience

At Jerash University

- 1) Physical Chemistry (Thermodynamics, Kinetics and Quantum Chemistry)
- 2) Organic Chemistry
- 3) Industrial Organic Chemistry
- 4) Spectrometric identification of Organic Compounds
- 5) Chemistry of Heterocyclic Compounds.
- 6) Polymer Chemistry
- 7) General Chemistry
- 8) Biochemistry
- 9) English Language Skills for Chemistry Students

At the Higher College for the certification of teachers – Irbid

- 1) Principles of Physical Chemistry
- 2) Organic Chemistry

At Ibn-Khaldoun Community College

- 1) Organic Chemistry
- 2) Biochemistry
- 3) Analytical Chemistry
- 4) General Chemistry

Research Interests

Computational studies of phosphite ozonide decomposition reaction.

Kinetic studies of thermal and photochemical reactions.

Photodegradation of drugs such as tenoxicam and pesticides such as carbaryl.

Chemistry of Iminocoumarin derivatives.

Workshops and training sessions

- 1) Use of Multimedia in eLearning (Swish Max Software) Jerash University 26,27 Sept 2011
- 2) Chemical Safety and Security Officer Training, Jordan University of Science and Technology 14-18 February 2010
- 3) Measurement and evaluation workshop Jerash University 21-29 June 2009.
- 4) Chemical Safety and Security Workshop, Jordan University of Science and Technology 13/4/2009
- 5) Quality assurance and higher education outcomes workshop, Jordan University of Science and Technology 21/4/2008
- 6) International Computer Driving License (ICDL) Jerash University March 2007 – June 2007.
- 7) Higher education industry relations workshop Yarmouk University 7/3/2005.
- 8) High Performance Liquid Chromatography (HPLC) and Liquid Chromatography Mass Spectrometry (LC-MS) Workshop Organized by Waters Co. at Jordan Hotel- Amman 15/5/2000.

Research Works

- 1) Laboratoire d'Hétérochimie fondamentale et Appliquée. UPRESA du CNRS 5069. Université Paul Sabatier, Toulouse- France 1/9-30/9/1999.
- 2) Research Works Laboratoire d'Hétérochimie fondamentale et Appliquée. UPRESA du CNRS 5069. Université Paul Sabatier, Toulouse- France 1/9-30/9/1997

Administrative experience

- 1) Chairman of Science Department 1995- 1997
Jerash University
- 2) Coordinator of Chemistry Department Oct 1997 -
Oct 2001, Oct 2004 – 2010
Oct 2018-2020.

Committees' membership

- 1) Scientific Committee. The eighth Jordanian
International Conference of Chemistry Irbid, Jordan
23-26March 2020.
- 2) Scientific Research Faculty Committee 2010 -2020
- 2) University Council (Oct. 1994 – Oct. 1996),
2007/2008, 2009/2010, 2020/2021
- 3) Editorial member board, Journal of Jerash for
research and studies (!996)
- 4) Faculty Council (Oct. 1995 – Oct. 1997).
- 5) Department tender committee (October 1997 –
October 1998)
- 6 Scientific equipment's committee (Oct. 1998 –
present)
- 7) University Accreditation Committee 2007 /2008
- 8) Member of Committee for Studying Plan/ Faculty of
Agriculture and Science Oct. 1999 – present.
- 9) Chief of Voting Committee for Students Council
Election in the University 2000 – 2002, 2004 –
2007.
- 10) Chief of Committee for Student Council Election in
the University 2003.
- 11) Member of Research Department Committee
2008/2009

Language Skills

- 1) Arabic Language
- 2) English Language
- 3) French Language
- 4) German Language (basics)

مقالات منشورة في مجلة كلية العلوم/جامعة جرش

- (1) تأثير الرياضة على كيمياء الجسم (72017)
- (2) الفسفور و دوره في الحياة (2018)
- (3) المبلمرات الذكبية (2018)
- (4) مضادات الاكسدة دواء و غذاء (2019)

Funded Projects

Synthesis and photophysical properties of Imminocoumarin derivatives funded by Jerash University (2010).

Masters 's Discussion Committee Memberships

- 1) Distribution of Polyphenols in Olive Mill Wastewater, Olive Oil and Jeft and their Potential Use
Esmat Abdulkareem Showayat Yarmouk University (2019).
- 2) Oxidative dehydrogenation of n-butene over iron (III) oxide based catalysts.
Iman khaled Mohammad Al-Qudah, Yarmouk University (2017).
- 3) Investigation of a Series of Ruthenium II Complexes as Potential Catalysts in the Hydrogenation of Ketones and Aldehydes
Amal Muhsen Mohammad Mahmoud, Yarmouk University (2016).
- 4) Application of ZnO-Derived Heterogeneous Catalysts in the Production of Biodiesel from Rapeseed Oil.
Radwan Al-Jarrah, Yarmouk University (2012).

Publications

1. Kinetics of Propane Hydrogenolysis catalyzed on Alumina supported Rh-Pt bimetallic catalyst. Fayez El Khatib and Sabri Mahmoud *Asian Journal of Chemistry* **20**, 2, 1179-1185 (2008).
2. Photodegradation of Carbaryl in acetonitrile solution Yaser A. Yousef, Fayez El Khatib, *Spectroscopy Letters* **40**, 573-582 (2007).
3. Temperature Dependence of Henry's Law Constant of Chlorine and Hydrogen Chloride in 1,2-Dichloroethane, 1,1,2-Trichloroethane and 1,1,2,2-Tetrachloroethane. Marwan Batiha, Fayez El Khatib *J. Saudi Chem. Soc* 10 (1) 2006
4. New carboxylate functionalized phosphodi- and trihydrazones as versatile chelating agents of metallic ions in organic solvents and in water. Fayez El Khatib, Nathalie Launay, Zong-Li He, Anne-Marie Caminade and Jean-Pierre Majoral *Phosphorus, Sulfur and Silicon* **180**, 321-330 (2005).
5. Synthesis and Characterization of iminocoumarin derivatives, Promising Properties in Laser Dye Applications Omar Ababneh, Fayez El Khatib, Yaser A. Yousef, Nail Saleh. *Abhath Al-Yarmouk Basic Sciences and Engineering* (**13**) 2, 239-248(2004).
6. Ozonation of bicyclo[3,2,1]-2,7,8-trioxo-1-phosphaoctane a new model of bicyclic phosphite ozonide. Fayez El Khatib *Jerash for researches and Studies* (**8**) 1, 13-21 (2003).
7. The kinetics of tenoxicam photodegradation in solution M. A. Hassan, S. S. Mahmoud, F. H. El Khatib, A. A. Obaidat and M. Sheikh-Salem *Reaction Kinetics and Catalysis Letters* (**70**) 119 (2000).
8. Reactivity of N-Phenyliminophosphoranes towards ozone: evidence of trioxoazaphospholane intermediates Fayez El Khatib, Jacques Bellan and Max Koenig *Phosphorus, Sulfur and Silicon* **134** 391 (1998).
9. Ozonation: An efficient method for the oxidation of halophosphines
Anne-Marie Caminade, Fayez El Khatib, Antoine Baceiredo and Max Koenig *Phosphorus and Sulfur* **27**, 1145 (1987)
10. Oxydation et isomérisation de diphosphène.
A.M. Caminade, F. El Khatib, C. Adès, M. Verrier, N. Paillous and M. Koenig *Phosphorus and Sulfur* **26**, 91 (1986).
11. Ozonides de phosphite source d'oxygène singulet, rendement, mécanisme A. M.Caminade, F, El Khatib M. Koenig and J. M. Aubry *Canadian Journal of Chemistry* **63**, 3203 (1985).

12. Ozonolyse d'oléfines perfluorées
A.M. Caminade, M. Le Blanc F. El Khatib and M. Koenig *Tetrahedron Letters* **26**, 3007 (1985).
13. Nouveaux trioxophosphétanes générateur d'oxygène singulet à basse température. F. El Khatib, C. Tachon. A.M. caminade et M. koenig
Tetrahedron Letters **26**, 3007 (1985).
14. Ozonides du phosphore: Stabilité et Stéréochimie
F. El Khatib, A.M. Caminade and M. Koenig *Phosphorus and Sulfur* **20**, 55 (1984)
15. Phosphorus ozonide adducts A.M. Caminade F. El Khatib and M. Koenig *Phosphorus and Sulfur* **18**, 97 (1983).
16. Réactions de l'ozone sur des molécules phosphorées :
Ozonides
F. El Khatib, A.M. Caminade et M. Koenig *Phosphorus and Sulfur* **14**, 381 (1983).
17. Stabilisation d'ozonides du phosphore M. Koenig, F. El Khatib, A. Munoz et R. Wolf *Tetrahedron Letters* **23**, 421 (1982).

International and national Conferences

- 1) The arab chemical week Perspectives of Applications of Modern Chemistry Science: Targeted Drug Delivery Systems. Jerash University 31 Oct, 2016.
- 2) International Conference on Advanced Materials. Jordan University of Science and Technology (Attendance) 27-28 April 2015.
- 3) 13th Jordanian Chemical Conference 'Chemistry and Scientific Contemporary Challenges" Jerash Nov 9, 2013 (Member of scientific committee, Attendance)
- 4) International Jordan Plastic Conference and Exhibition Amman, Jordan 8-10 Oct 2012 (Attendance)
- 5) The sixth Jordanian International Conference of Chemistry Yarmouk University, Irbid, Jordan.19 - 21 April 2011 (Attendance)
- 6) The Tenth Jordanian Chemical Conference, Jordan University of Science and Technology, Irbid, Jordan May 20, 2010 (Attendance).
- 7) Fifth Jordanian International Conference of Chemistry, Yarmouk University, Irbid, Jordan 16- 19 June 2008 (oral presentation).
- 8) International Conference of Heterocyclic Chemistry Rajashan University, Jaipur, India 16-20 December 2006 (oral presentation).
- 9) The fourth Jordanian International Conference of Chemistry, Yarmouk University Sept. 2005 (Poster presentation).
- 10) Symposium of Pesticides and Contemporary life, Jerash University, Jerash April 2004 (oral presentation).
- 11) 12th Chemical Arab Conference Al-Quods Hotel , Amman, Nov 2003 (oral presentation).
- 12) The third Jordanian International Conference of Chemistry, Yarmouk University April 2002 (oral presentation).
- 13) Forum of Faculty of literature and Science, Al al-Bayt University, Almafraq - Jordan May 5th, 2001 (oral presentation).
- 14) Second International Conference of Pure, Applied and Environmental Chemistry, Yarmouk University. Irbid - Jordan April 2000 (oral presentation).
- 15) First Symposium of Pure and Applied Chemistry. Yarmouk University. Irbid- Jordan April 1998 (oral presentation).
- 16) 5^{ème} Colloque national sur la chimie du phosphore Yrivals (France) May 1985 (oral presentation).

- 17) Journées des formes activées de l'oxygène et de l'ozone "Société française de chimie" Toulouse (France) novembre 1984(Attendance).
- 18) Journées Franco-espagnoles Aix-en-Provence (France) May 1984 (oral presentation).
- 19) "International Conference of Phosphorus Chemistry" Nice (France) September 1983 (oral presentation).
- 20) "Colloque national sur la chimie du phosphore" Montpellier (France) septembre 1982(Attendance).