

CURRICULUM VITAE (2013)

Name : Prof. Dr. Zacharia Abdul-Salam Fataftah
Professor of Organic Chemistry

1. Address :

Chemistry Department

Yarmouk University

Irbid - JORDAN

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2. Personal Data :

- Date of Birth : Nov. 20 , 1947
- Place of Birth : Tarqumia
- Nationality : Jordanian
- Marital Status : Married
- Number of Children : Two

3. Education :

Institution	Location	Degree	Year	Area	Language
Univ. of Jordan	Jordan	B.Sc.	1971	Chemistry	English
Univ. of Jordan	Jordan	M.Sc.	1976	Organic Chemistry	English
Michigan State University	U.S.A	Ph.D.	1980	Organic Chemistry	English

4. Titles of Theses :

- M.Sc. Photoreactions of some quinoxaline-1,4-dioxides.
- Ph.D. The Synthesis and Reactions of Hindered Secondary Amine.

5. Teaching Experience :

- Secondary School Teacher , Jordan 1971-1974
- Teaching and Research Assistant Univ. of Jordan 1974-1976
- Teaching and Research Assistant Yarmouk University 1976-1977
- Teaching and Research Assistant Michigan State Univ. 1978-1980
- Assistant then Associate Professor, Yarmouk Univ. 1980-1987
- Teaching at Applied Sciences Department 1987-1990
Faculty of Technological Studies , Kuwait
(Sabbatical) , and two years leave of absence)
- Yarmouk University 1990-To date
- During my carrier at Yarmouk Univerisyt , I have taught the ten different undergraduate organic courses (211,212,213,214,215,216,311,312,313 and 495), two of the three graduate organic courses (512 , 592) and the general chemistry courses (101,102,107).
- Chairman of the Chemistry Department 1994-1996
- Sabbatical year at Jordan University of Science and Technology during that year I participated in establishing the graduate program there. 1996-1997
- Sabbatical year at Philadelphia University Teaching Organic Chemistry for Pharmacy and Biology Students as well as General Chemistry. 2004-2005

6. Research Interests :

Synthesis and reactions via enolates.

Conformational analysis of amides and thioamides.

Ab initio calculations.

Photoreactions.

Kinetics

7. Graduate Studies :

Supervision of the graduate students :

1. Naim Al-Said graduated 1985
2. Mahmoud Abu-Aguil graduated 1985
3. Othman Hamed graduated 1985
4. Hisham Hussien graduated 1987
5. Musa Sawaftah graduated 1987
6. Gassan Qabaja graduated 1992
7. Yasser Melhim graduated 1993
8. Ma'ather Swallha graduated 1994
9. Abed Al-Mun'im Rawashdeh graduated 1996
10. Basem Abu Durrah graduated 1996
11. Abdel Hakeem Betro graduated 1997
12. Kanan El-Wahedy graduated 1997
13. Lina Itum graduated 1998
14. Ala'a Mahrath graduated 1998
15. Deeb Taher graduated 2001
16. Rabia Taha graduated 2001
17. Ahmed Malkawi graduated 2008
18. Shadin Jacoub

8. Grants and Contracts :

1. Research grant from Yarmouk University # 24/1982
2. Research grant from Yarmouk University # 40/1984
3. Research grant from Yarmouk University # 61/1986
4. Research grant from Yarmouk University # 56/1990
5. Research grant from Yarmouk University # 34/1993
6. Research grant from International Medical Research Inc. U.S.A.
7. Research grant form Yarmouk University # 26/99

9. Committees :

a. University :

1. Residents of University Housing Committee 1981-1986
2. Chairman of Al-Beiruni (Orginally Arts and Sciences Building) Supervision Committee 1981-1984
3. Housing loans Committee 1985-1987
4. Organizing Committee for the symposium on Interaction between Jordan chemical industries and Yarmouk University 1993
5. Graduate Studies Council 1995-1996
6. Organization Structure Committee 2001-2006
7. Medical Insurance committee 2002-2004

b. Faculty of Science :

1. Representative of the Chem. Dept. in the Faculty Counsel 1984-1985
2. Curriculum Committee 1984-1985
3. Guidance and Counselling Committee 1984-1985
4. Design of basic Science Courses for Nursing 1986
5. Scientific day of the Faculty of Science Committee 1992

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| 6. The advisor of the consultative and coordinative Committee for Students Scientific Societies in the Faculty of Science | 1991-1992 |
| 7. Faculty Council | 1994-1996 |
| 8. Graduate Committee | 1994-1996 |
| 9. Chairman, Student Affair Committee | 1994-1996 |
| 10. Promotion Committee | 1994-1996 |

c. Chemistry Department :

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| 1. Graduate Committee | 1981-1983 |
| 2. Laboratories and Space Committee | 1983-1985 |
| 3. Library Committee | 1982-1984 |
| 4. Advising and Registration Committee | 1983-1986 |
| 5. Schedule Advisory Committee | 1981-1983
1985-1986 |
| 6. Tender Committee | 1985-1987 |
| 7. In Charge of Nuclear Magnetic Resonance Equipment | 1983-To date |
| 8. I have served in every Committee of the department more than once in each | |
| 9. Chairman of the Chemistry Department | 1994-1996 |
| 10. Chairman of the nine committee in the Department | 1994-1996 |
| 11. During my carrier as a Chairman I have participated in all the work needed to establish the Department in our new 4 story building, including the furniture's and the move from the old building. | |

10. Community Service :

1. Community Service Committee 1981-1982
2. Chairman of the Jordanian Chemical Society, Northern Branch 1990-2001
3. Renal failure patients care Society. 1998-to date
4. As being a chairman of the Jordanian Chemical Society branch in northern part of Jordan, I have served the community by :
 1. Annual Exhibition for chemistry experiments in high schools (~ 40 experiments for four days for all high schools in the district).
 2. Discussion day in high school syllabuses of chemistry for teachers of the Directorates of Education and Instruction in the northern parts of Jordan. (twice a year).
 3. Lecturing in high schools (El-Hussen Sec. School for girls, El-Mazar Sec School for boys and centre of Learning Resources).
 4. In the occasion of the Arab Chemists day , honouring al First Student(s) in each high school in chemistry.
 5. Creating Chemistry Clubs in several high schools, for three consecutive years giving them the scientific needs and supervision during the year.

11. Membership in Scientific and Professional Societies :

- American Chemical Society 1978-1982
- Jordan Chemical Society 1974-To date
- Chairman of the Jordanian Chemical Society (Irbid branch) 1990-2001

12. Professional and Scientific Meetings :

1. 24th Science Week , Aleppo , Syria , November , 1984.
Presented a paper entitle "Reactions of hindered Secondary amines"
2. 10th International Congress of Heterocyclic Chemistry , Waterloo, Canada Aug. , 1985. Presented a paper entitled "Conformational analysis of 1,4-Diacyl;1nd 1,4-Diaroyl-6 , 7-Dimethyl-1,2,3,4-Tetrahydroquinoxalines".
3. Third National Meeting of Chemists , King Fahd University of Petroleum and Minerals , Saudi Arabia , Mar. , 1989. Presented a paper entitled " Synthesis of Dimethyl silyl Bis-enol Ethers " .
4. Silver Jubilee Chemical Congress ,Kuala Lumpur , Malaysia , Nov. 1992 presented a paper entitled "Preparation of some Allyldimethylsilyl Enol Ethers" .
5. First National Meeting of Chemists , University of Jordan , Apr. , 1993, Presented a paper entitled "Synthesis of some Allyloxy dimethylsilyl Enol Ethers Derived from Ketones" .
6. International Chemical Conference on Materials Science and Environmental Chemistry of Main Group Elements and 5th Asian Chemical Congress , Kuala Lumpur , Malaysia , Nov. 1993. Presented a paper Entitled "Synthesis of Dimethylvinylsilyl Enol Ethers Derived from Aldehydes and Ketones".
7. Sixth Asian Chemical Congress, Manila, Philippines, May 1995.
8. First International Conference of Pure, Applied and Environmental Chemistry, Yarmouk University, Irbid, Jordan (1998).

9. Second International Conference of Pure, Applied and Environmental Chemistry, Yarmouk University, Irbid, Jordan (2000).
10. First arab chemical conference, Applied Science University amman, Jordan, Nov. 2001, Presented a paper entitled "Synthesis and Hydrolytic stability of t-butoxydimethylsilyl enol ethers".
11. Third International Conference of Pure, Applied and Environmental Chemistry, Yarmouk University, Irbid, Jordan (2002).
12. Arab Thought Foundation, Arab Education forum, Amman, April 2007.
13. Arab Thought Foundation, The International Translation Conference, Jordan, 2007.

13. Other Activities :

1. Chemistry Departments in the Arab World Meeting , Yarmouk University, Jordan Nov. , 1981.
2. Training Course on NMR , Wissembourg (Bruker) France , Sep., 1983.
3. Training Course on Gas Chrom. , Zug (Varian) Switzerland , July , 1985.
4. Scientific Dictionary Meeting (Arabic , English , French), Amman, October , 1985.
5. Training Course(II) on Gas Chrom. , Zug (Varian) , Switzerland , November , 1986.
6. EEC Research Grant at Sulford University England, (One month), Jan., 1987.
7. Thirteenth Egyptian Chemical Conference., 1993.

8. Eighteenth Iraqi Chemical Conference, 1994.
9. Chemistry Chairman for Abdul Hameed Shoman Award for Young Arab Researchers.

14. Publications :

A. Journals :

1. PHOTOLYSIS OF SOME QUINOXALINE-1,4-DIOXIDES.
A.A. Jarrar and Z.A. Fataftah, **Tetrahedron** , 33(16) , 2127 (1977).
2. ROLE OF HMPT AND TMEDA IN CONTROL OF ENOLATE STEREOCHEMISTRY FOR REACTIONS OF LITHIUM AMIDES WITH 3-PENTANONE.
Z.A. Fataftah , I.E. Kopka and M.W. Rathke , **J. Am. Chem. Soc.** , 102, 3959 (1980).
3. PREPARATION OF A SERIES OF HIGHLY HINDERED SECONDARY AMINES , INCLUDING BIS (TRIETHYL-CARBINYL) AMINE.
I.E. Kopka, Z.A. Fataftah and M.W. Rathke, **J. Org. Chem.**, 45 , 4616 (1980).
4. CONFORMATIONAL ANALYSIS OF DIACYL AND DIAROYL 1,2,3,4-TETRAHYDROQUINOXALINE
Z.A. Fataftah , M.R. Ibrahim and N.H. Al-Said.
J. Mol . Struct. 127 305 (1985).
5. ESTIMATION OF ZERO-POINT ENERGIES OF COMPOUNDS CONTAINING N, O, Cl AND F ATOMS.
M.R. Ibrahim and Z.A. Fataftah, **Chem. Phys. Letters**, 125, 149 (1986).

6. A CONVENIENT PROCEDURE FOR CARBOXYLATION-ROBINSON ANNULATIONS OF KETONES USING TRIETHYLAMINE BASE IN THE PRESENCE MAGNESIUM CHLORIDE.
R.S. Oleson , Z.A. Fataftah and M.W. Rathke , **Synth Commun.** 16(10) 1133 (1986).
7. PREPARATION OF DIMETHYLSILYL BIS-ENOL ETHERS
Z.A. Fataftah , M.R. Ibrahim and M.S. Abu-Agil.
Tetrahderon Lett. 27(34). 4067, (1986).
8. A. CONVENTIENT SYNTHESIS OF N,N-ACYLATED PERIMIDONE.
M.R. Ibrahim , Z.A. Fataftah , O.A. Hamed and
A.A. Jarrar , **J. Chem. and Engineering Data**, 32, 128
(1987).
9. PREPARATION OF HINDRED LITHIUM AMIDE BASES AND RATES OF THEIR REACTION WITH ETHER SOLVENTS.
I.E. kopka, Z.A. Fataftah and M.W. Rathke, **J. Org. Chem.**, 52,448, (1987).
10. REACTION OF HINDERED SECONDARY AMINES ,
A.A. Fataftah (Proceeding of a Conference).
11. CALCULATION OF ENTHALPIES OF HYDROGENATION OF HYDROCARBONS.
M.R. Ibrahim Z.A. Fataftah , P.R. Schleyer and P.D. Stout, **Journal of Computational Chemistry** , 8(8) , 1313 , 1987.
12. ESTIMATION OF ZERO-POINT ENERGIES OF BROMO AND THIO COMPOUNDS.
M.R. Ibrahim and Z.A. Fataftah, **Chem. Phys. Letters**, 136(6), 583, (1987).

13. A SYNTHESIS OF N,N-DIACYLATED-2,2'-BIPHENYLENEUREA.
M.R. Ibrahim , Z.A. Fataftah and O.A. Hamed , **J. Chem. and Engineering Data** , 33, 69, 1988.
14. CONFORMATIONAL ANALYSIS OF 1,4-DIACYL AND 1,4-DIAROYL-6,7-DIMETHYL-1,2,3,4-TETRAHYDRO-QUINOXALINES.
Z.A. Fataftah ,M.R. Ibrahim and N.H. Al-Said, **J. Iraqi Chem. Soc.**, 13(1) , 57 , 1988.
15. SYNTHESIS OF DIMETHYLSILYL BIS-ENOL ETHERS DERIVED FROM ALDEHYDES.
Z.A. Fataftah, M.R. Ibrahim and H.N. Abdel-Rahman, **Bull. Chem. Soc. Jpn.**, 64, 671 (1991).
16. SYNTHESIS OF SOME ALLYLDIMETHYLSILYL ENOL ETHERS DERIVED FROM KETONES.
Z.A. Fataftah , G.M. Qabaja, **Mu tah J. Research and Studies.** 9(2) , 27 , (1994) .
17. SYNTHESIS OF SOME ALLYLOXYDIMETHYLSILYL ENOL ETHERS DERIVED FROM KETONES.
Z.A. Fataftah , G.M. Qabaja, **Iraqi J. Chem.** 19(1), 73, 1994 .
18. SYNTHESIS AND CONFORMATIONAL ANALYSIS OF N-ACETYLBENZO-THIAZINE .
M.R. Ibrahim , Z.A. Fataftah and M.M. Sawaftah .
Abhath Al-Yarmouk, Pure Sciences and Engineering Series 3(2), 41, (1994) .

19. PREPARATION OF SEVERAL ALLYLSILYLOXY ALKENES FROM ALDEHYDES.
Z.A. Fataftah , **Iraqi J. Chem.**, 20(1) 49, 1995.
20. SYNTHESIS OF DIMETHYLVINYLSILYLOXYALKENES FROM ALDEHYDES AND KETONES.
Z.A. Fataftah and K.A. Abbas , **Mu'tah J. Research and Studies** 10 (1), 11, 1995
21. MECHANISM AND LINEAR FREE ENERGY RELATIONSHIPS IN THE HYDROLYSIS OF P-SUBSTITUTED BENZONITRILES IN CONCENTRATED SULFURIC ACID.
K.A. Abbas and A.A. Fataftah, **Mu'tah J. Research and Studies** 10 (1), 115, 1995 .
22. TAUTOMERISM IN NAPHTHYLIDINE NAPHTHYLAMINE AND NAPHTHYLIDINE QUINOLINE AMINE .
K.A. Abbas , S.R. Salman, S.M. Kana'n and Z. Fataftah.
Canadian J. of Applied Spectroscopy. 41(5), 119, 1996 .
23. SATURATION SWELLING AND THE SEEDED EMULSION POLYMERIZATION OF STYRENE AT HIGH IONIC STRENGTH.
Z.F.Said and Z.A. Fataftah, **Polymer International** 40, 307-313, 1996.
24. CONDENSATION OF o-PHTHALALDEHYDIC ACID WITH DIHYDROXY BENZENES PART VII : SYNTHESIS OF 3-(DIHYDROXYPHENYL) PHTHALIDES AND THEIR NITRATION REACTIONS.
R. Al-Hamdany and Z. A. Fataftah.
Asian Journal of Chemistry, 9 (4), 703, 1997.

25. SYNTHESIS OF 3-(CHLOROSULFONYLARYL) PHTHALIDES AND THEIR REACTIONS WITH AMINO PYRIDINES.
R. Al-Hamdany, Z. Fataftah and B. Abu-Durrah
Asian J. of Chemistry 10 (4) 928, 1988.
26. A STUDY ON THE CONDENSATION OF 6-PHTHALALDEHYDIC ACID WITH PRIMARY HETERO AROMATIC AMINES PART VIII .
R. Al-Hamdany, Z. Fataftah and A.R. Betro
Asian J. of Chemistry, 10 (4), 740, 1998.
27. PHOTO-OXIDATION OF 1,3-DI-P-ANISYL ISOBENZOFURAN.
Y. A. Yousef, R. I. Al-Hamadany, Z. Fataftah and Salman R. Salman.
Oriental J. of Chemistry, 15 (2), 229, 1999.
28. DESIGN AND ASSEMBLY OF A FAST SPECTROPHOTOMETER SYSTEM FOR MONITORING CHEMICAL REACTIONS.
Y. A. Yousef, Z. Fataftah.
Optical Applicata, Vol. XXXI, No. 3, 563, 2001.
29. SYNTHESIS AND HYDROLYTIC STABILITY OF TERT-BUTOXYDIMETHYLSILYL ENOL ETHERS.
Z. A. Fataftah, A. M. Rawashdeh, **Synthetic Communication**, 31 (15), 2379 (2001).

30. GENOTOXICITY, ANTIFUNGAL AND ANTIBACTERIAL ACTIVITY OF NEWLY SYNTHESIZED N-(3-PHTHLIDYL) AMINES AND o-BENZOYL BENZAMIDE DERIVATIVES.
A. O. Maslat, R. Al-Hamadany, Z. Fataftah A. Mahrath and M. Abussaud. **Toxical and Enviorn. Chem.** 2003, **85**, 149.
31. Synthesis of a Particular Class of Silicon Tethered Dinucleophiles.
Z. A. Fataftah, A. M. Rawashdeh and M. Sawalhah.
Synthetic Communication, 36, 1-11, 2006.

B. Patents :

Disclosure Document, Title of Invention: Substituted Furans as potent Inhibitors of Reverse Transcreptase Enzyme. T.A. Khalil, A. Kadry, N. Achie, International Medicl Research Inc. 1036 Main Street, Paterson NJ 07065

Z.A. Fataftah Department of Chemistry ,University of Yarmouk, Irbid, Jordan.

C. Books :

PRACTICAL ORGANIC CHEMISTRTY (Arabic).

A.A. Jarrar and A.A. Fataftah , Dar-Al-Forquan (Amman).
and Dar Al-Resalleh (Beirut) , 1985 , 293 Page.

D. Abstracts :

1. CONFORMATIONAL ANALYSIS OF 1,4-DIACYL-AND
1,4-DIAROYL-6,7-DIMETHYL-1,2,3,4
TETRAHYDROQUINOXALINES
Tenth International Congress of Heterocyclic Chemistry ,
University of Waterloo, Canada.
2. REACTION OF HINDERED SECONDARY AMINE
24th Science Week , University of Aleppo , Syria.
3. SYNTHESIS OF DIMETHYLSILYL BIS-ENOL ETHERS.
3rd National meeting of chemists. King Fahd University of
Petroleum and Minerals , Saudi Arabia.
4. PREPARATION OF SOME ALLYLDIMETHYLSILYL ENOL
ETHERS. Silver Jubilee Chemical Congress , 1992 , Kuala Lumpur
Malaysia.
5. SYNTHESIS OF SOME ALLYLOXYDIMETHYLSILYL ENOL
ETHERS DERIVED FROM KETONES.
First national meeting of chemists, University of Jordan , Apr. ,
1993.
6. SYNTHESIS OF DIMETHYLVINYLSILYL ENOL ETHERS
DERIVED FROM ALDEHYDES AND KETONES .
International Chemical Conference on Materials Science and
Environmental Chemistry of Main Group Elements and 5th Asian
Chemical Congress. Nov. 1993.

15. References :

1. Professor Michael W. Rathke, Chem. Dept., MSU, E. Lansing, Michigan, 48824, U.S.A.
2. Professor Marwan Kamal, President, Philadelphia University, Amman, Jordan.
3. Professor Adil Jarrar, Chem. Dept. University of Jordan, Amman, Jordan.