



CURRICULUM VITAE
Professor Sultan T. Abu-Orabi Aladwan
Secretary General
Association of Arab Universities (AARU)

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CURRICULUM VITAE

Sultan T. Abu-Orabi Aladwan

Secretary General of the Association of Arab Universities (AARU)

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Ex-President of Tafila University

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1. Personal Data

Date of Birth:	March 20, 1950
Place of Birth:	Shafa Badran, Jordan
Nationality:	Jordanian
Marital Status:	Married
No. of children:	Seven
Names and Year of Birth:	Yazan – 1986
	Saif El-Dein – 1988
	Razan – 1990
	Raya – 1993
	Mohamad – 1995
	Rand – 1998
	Raghad – 2000

2. Education

<ul style="list-style-type: none">• PhD (Organic Chemistry) 1982, University of Michigan, Ann Arbor, USA
<ul style="list-style-type: none">• MSc (Organic Chemistry) 1977, Western Michigan University, Kalamazoo, USA
<ul style="list-style-type: none">• BSc (Chemistry) 1973, University of Jordan, Amman, Jordan

3. Title of Theses

<ul style="list-style-type: none">• PhD : "<i>The Synthesis of Substituted Arsabensenes</i>"
<ul style="list-style-type: none">• MSc : "<i>The Preparation and Study of Some Bridged Tropones</i>"

4. Experience

a. Administration	
Jul 2011 – Present	Secretary General, Association of Arab Universities, Amman, Jordan
Mar 2009 – July 2011	President, Yarmouk University, Irbid, Jordan
Mar 2005 – Feb 2009	President, Tafila Technical University, Tafila, Jordan
Sept 2002 – Mar 2005	President, Irbid National University, Irbid, Jordan
Sep 2001 – Aug 2002	Dean of Student Affairs, Yarmouk University, Irbid, Jordan
Sep 1998 – Sep 2001	Chairman, Department of Chemistry, Faculty of Science, Yarmouk University, Irbid, Jordan
1987 – 1989	Director of Student Activities, Yarmouk University, Irbid, Jordan
b. Teaching	
2009 – Present	Professor, Yarmouk University, Irbid, Jordan
2005 – 2009	Professor, Tafila Technical University, Tafila, Jordan
2002 – 2005	Professor, Irbid National University, Irbid, Jordan
1998 – 2002	Professor, Yarmouk University, Irbid, Jordan
1996 – 1998	Professor, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia

1995 – 1996	Professor, Yarmouk University, Irbid, Jordan
1993 – 1995	Associate Professor, Yarmouk University, Irbid, Jordan
1990 – 1993	Associate Professor, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia
1989 – 1990	Visiting Associate Professor, Bahrain University, Bahrain
1988 – 1989	Associate Professor, Yarmouk University, Irbid, Jordan
1982 – 1987	Assistant Professor, Yarmouk University, Irbid Jordan
1979 – 1982	Research Assistant, University of Michigan, USA
1977 – 1978	Teaching Assistant, University of Michigan, USA
1975 – 1976	Teaching Assistant, Western Michigan University, USA

5. Courses Taught

Yarmouk University	
• Chem. 101 General Chemistry (1),	• Chem. 105 General Chemistry Lab
• Chem. 102 General Chemistry (2),	• Chem. 106 General Chemistry Lab
• Chem. 211 Organic Chemistry (1),	• Chem. 212 Organic Chemistry (2)
• Chem. 213 Organic Chem. Lab (1),	• Chem. 214 Organic Chemistry Lab (2)
• Chem. 215 Organic Chem. (for non-majors),	• Chem. 216 Organic Chem. Lab (for non-major)
• Chem. 311 Organic Chem. (3)	• Chem. 312 Organic Structure Identification
• *Chem. 611 Advanced Organic Chemistry for Master Degree	• *Chem. 612 Advanced Organic Chemistry for Master Degree
Bahrain University (1989-1990)	
• Chem. 053 General Chemistry	• GSC 101 Chemistry for Non-Science Majors
• Chem. 101 General Chemistry (1)	• Chem. 211 – Organic Chemistry (1)
• Chem. 401 Organic Chemistry (3)	

King Fahd University (1990-1993 & 1996-1998)	
• Chem. 101 – General Chemistry	• Chem. 102 – General Chemistry (2)
• Chem. 201 – Organic Chemistry (1)	• Chem. 202 – Organic Chemistry (2)
• *Chem. 536 – Spectroscopic Identification of Organic Compounds	• *Graduate courses for MSc and PhD degrees
Jerash National University (1994, 1999, 2000)	
• Chem. 101 – General Chemistry (1)	• Chem. 102 – General Chemistry (2)
• Chem. 312 – Organic Structure Identification	
Jordan University of Science and Technology (2000)	
• Chem. 217 – Organic Chemistry for Medical Schools	

6. Research Interests

• Synthesis and reactions of arsenic compounds
• Synthesis and study of tin and boron compounds
• Synthesis and reactions of azides and triazole compounds
• Synthesis and reactions of nitrile oxides and isoxazole compounds
• Synthesis and study of oxadiazole compounds
• Synthesis and study of substituted cyclopentadienyl derivatives with main group elements
• Utilization of triazole and isoxazole compounds for anti-corrosion studies
• Environmental studies

7. Graduate Studies

a. Direct Supervision
1. Msc in Chemistry – Noor Otoom, Yarmouk University, Irbid, Jordan, Isolation & identification of the chemical composition of Scabiosa Prolifera.
2. MSc in Chemistry – Fidaa Mohamed Abdulrazeq Hamada, Yarmouk University, Irbid, Jordan, 2013. "Synthesis, Study and Characterization of 1,2,4-Oxadiazolyl – and 1,2,4 – triazolyl-isoxazole Derivatives (Via Dehydration Reactions of Carbohydrazides Derivatives".
3. PhD in Organic Chemistry – Hatem A. Mghames, Tishreen University, Syria, 2010. "Condensation of Amino Derivatives of Five-Membered Aromatic Heterocyclic Compounds with Glyoxal and formaldehyde".

4. PhD in Chemistry – Thanaa Mouhamad Shriteh, Al-Baath University, Homs, Syria, 2010. Thesis title: "Study of 1,3 Dipolar Cycloadditions Reactions of Aryl Azides with Unsaturated Bonds for Some Compounds".
5. MSc in Chemistry – Marwa M. Al-A'qarbeh, Hashemite University, Zarqa, Jordan, 2009. Thesis title: "Synthesis and Characterization of New Hypoxia PET markers".
6. MSc in Chemistry – Sanaa Shraiteh, Al-Baath University, Homs, Syria, 2004. Thesis title: "Preparation of some Derivatives of new 1,2,3-Triazole via 1,3-Dipolar Cycloaddition Reaction".
7. MSc in Chemistry – Nuha A. Abu-Naaj, Yarmouk University, Irbid 2002. Thesis title: "Synthesis and Study of some 1,2,3-Triazolo-1,2,4-Triazole Derivatives (1,3-Dipolar Cycloaddition Reactions)".
8. MSc in Chemistry – Mahmoud Mousa Al-Dahoun, Yarmouk University, Irbid 2001. Thesis title: "Study and Preparation of Phthalamide Derivatives from O-Phthalaldehydic Acid".
9. MSc in Chemistry – Abdelaziz M. Abu-Yamine, Mutah University, Karak Jordan 2000. Thesis title: "Synthesis and Properties of Novel Aromatic Polyamides containing 1,2,3-Triazole Ring Structures".
10. MSc in Chemistry – Maysaa Mahmoud Saleh, Yarmouk University, Irbid 2000. Thesis title: "1,3-Dipolar Cycloaddition Reaction of Organic Azides with 1,4-Benzoquinones".
11. PhD in Chemistry – Noura Al-Mehbad, College of Girls, Dammam, Saudi Arabia, 1997. Thesis title: "Alkylation and Disproportion of Aromatic Hydrocarbon Compounds using Zeolites".
12. MSc in Chemistry – Safa Al-Alousi, Yarmouk University, Irbid 1996. Thesis title: "Study of the Mutagenic Activity of some Azides and 1,2,3-Triazole Compounds".
13. MSc in Chemistry – Abdullatif I. Al-Abdulahadi, King Fahd University of Petroleum and Minerals, Saudi Arabia, 1995. Thesis title: "Protective Effects of Substituted 1-Benzyl-1-H-1,2,3-Triazole Compounds in the Dissolution of Iron in HCl Solution".
14. MSc in Chemistry – Khaled Abu-Shandi, Yarmouk University, Irbid 1995. Thesis title: "Synthesis and Study of 1,2,3-Triazole Compounds and their Cyclization Reactions".
15. MSc in Chemistry – Loai T. Al-Momani, Yarmouk University, Irbid 1995. Thesis title: "Syntheses, Study and Reactions of Isoxazole and Isoxazoline Compounds via 1,3-Dipolar Cycloaddition Reactions of Aromatic Nitrile Oxides".
16. MSc in Chemistry – Solhe F. Alshahateet, Yarmouk University, Irbid 1993. Thesis title: "Dipolar Cycloaddition Reactions of Substituted Benzyl Azides".
17. MSc in Chemistry – Sami A. Klaib, Yarmouk University, Irbid 1990. Thesis title: "Synthesis and Reactivity of 1,3-Di-ter-Butyl Cyclopentadienyl Titanium (IV) Chlorides".

18. MSc in Chemistry – Amer Al-Sheikh Ali, Yarmouk University, Irbid 1990. Thesis title: "Synthesis of 1,2,3-Triazoles via 1,3-Dipolar Cycloaddition Reactions of Organic Azides with Acetylenic Compounds".
19. MSc in Chemistry – Fakhri Mahmoud Marii, Yarmouk University, Irbid 1988. Thesis title: "1,3-Dipolar Cycloaddition of Aromatic Azides with Acetylenic Compounds".
20. MSc in Educational Chemistry – Mohammad M. Al-Khashan, Yarmouk University, Irbid 1987. Thesis title: "The Learning of Some Scientific Concepts in General Chemistry for Freshman Students at Yarmouk University".
b. Membership on Examining Committees for Graduate Studies
1. PhD in Chemistry – Nuha I.Sweidan- Yarmouk University, Irbid, Jordan. Thesis title: Isolation & Identification of the Chemical Constituents of Marrubium Vulgare & Calotropis Procera.
2. PhD in chemistry -Mohammad A.Abdulmalic- Chemnitz University of Technology, Germany. Thesis title: A tailor-made Approach for Thin Films & Monolayer Assemblies of bis (oxamato) and bis (oxamidato) Transition Metal Complexes".
3. PhD in Chemistry – Patel Pareshkumar Krushnalal, Sardar Vallabhbhai National Institute of Technology, Surat, India, 2012. "Design, Synthesis And In Vitro Anti-HIV And Antimycobacterial Studies of Novel Heterocyclic Scaffolds".
4. PhD in Chemistry – Eveen Fawzi Saeed Al-Shalabi, University of Jordan, Jordan, 2010. "Chemical Constituents of Flora of Jordan – Part (XXIII). Chemical Constituents of Hypericum triquetrifolium Turra and Teucrium polium L".
5. MSc in Chemistry – Mohanad Husien Mohamad Masad, Al al-Bayt University, Jordan, 2010. "Synthesis and Properties of some New 3-substituted Thieno[2,3-e]-1,4,2-Dithiazine-1,1-Dioxides".
6. PhD in Chemistry – Tareq M.A. Al-Shboul, Friedrich Schiller University of Jena, Germany, 2010. "Reactivity of (THF) ₄ Ca(PPh ₂) ₂ in Stoichiometric and Catalytic Reactions".
7. PhD in Chemistry – Vicente Javier Forrat Perez, University of Alicante, Spain, 2008. Thesis title: "Enantioselective Addition Reactions of Organozinc to Ketones Utilization of Isobornesulfonamides".
8. PhD in Chemistry – Hala Ihlal Saadeh Al-Jaber, University of Jordan, Jordan, 2007. Thesis Title: "Chemical constituents of Flora of Jordan – Part XX1. Chemical constitutions of Salvia Palaestina and Osyris Alba".
9. MSc in Chemistry – Husein A. Said Amjaour, Al al-Bayt University, Jordan, 2006. Thesis title: "Synthesis of New Imidazole Derivatives".
10. MSc in Chemistry – Fedaa Faiz Al-Adaileh, Mutah University, Jordan, 2006. Thesis title: "Synthesis and Characterization of Poly (3,4-Dinitro -4 hexyl-2,2-bithiophene".

11. MSc in Chemistry – Tariq Mahmoud Abu Salem, Jordan University of Science and Technology, Jordan, 2004. Thesis title: "Synthesis and Characterization of Tungsten Tricarbonyl Selenocarboxylate and Selenosulfonate Complexes".
12. MSc in Chemistry – Raad Sadqi Khalil, Al al-Bayt University, Jordan, 2004. Thesis title: "New Derivatives of Quinaxaline-1,4-Dioxide".
13. PhD in Chemistry – Mohammed Al-Anber, Chemnitz Technical University, Germany, 2003. Thesis title: "Organic and/or Inorganic π -Conjugated Units in the Synthesis of Multinuclear Complexes".
14. MSc in Chemistry – Younis N. Hama Bagi, University of Jordan, Jordan, 2003. Thesis title: "Chemical Constituents of Flora of Jordan-Part XVI. Chemical Constituents of Paronychia Argentea".
15. MSc in Chemistry – Akef I. Al-Hmaideen, Jordan University of Science and Technology, Jordan, 2003. Thesis title: "Synthesis and Characterization of Dinuclear Metal Carbonyl Complexes Triply-Bridged by BIS(Diphenylphosphino) Alkanes".
16. MSc in Educational Chemistry – Qais Momani, Yarmouk University, Jordan, 2002. Thesis title: "The Influence of an Educational Computerized Program on the Acquisition and Retention of Chemical Concepts for the Tenth Graders".
17. MSc in Educational Chemistry – Ahmad Y.I. Malkawi, Yarmouk University, Jordan, 2002. Thesis title: "The Effect of using the Learning Cycle Method on the Achievement of Basic Eighth Grade Students in the Atom Electronic Structure".
18. PhD in Chemistry – Amal M.F. Al-Aboudi, University of Jordan, Jordan, 2001. Thesis title: "Heavy Metal Removal from Wastewater using Phragmites Australis; Voltammetric Study of the Interaction between Heavy Metals and the Chemical Constituents of Phragmites Australis".
19. MSc in Chemistry – Rabia T.M. Taha, Yarmouk University, Jordan, 2001. Thesis title: "A Study in the Synthesis and Reactions of 3-(Amino-Aryl) Phthalide from O-Phthalaldehydic Acid".
20. MSc in Chemistry – Hisham M.I. Barakat, Jordan University of Science and Technology, Jordan, 2001. Thesis title: "Preparation of Organoiron Sulfur Complexes with Bisphosphine Ligands: CpF3(CO)(Ph ₂ P(CH ₂) _n PPh ₂)SCOR and CpFe(Ph ₂ Fe(Ph ₂ P(CH ₂) _n PPh ₂) SCOR".
21. MSc in Chemistry – Mohammad A. H. Al-Zoubi, Al al-Bayt University, Jordan, 2000. Thesis title: "Synthesis of new O-Alkylisourea and its Isouronium Salts as mild Alkylating Agent. Nucleophilic Substitution of Glycosylisourea".
22. MSc in Chemistry – Qutaiba S. Abu-Salem, Jordan University of Science and Technology, Jordan, 2000. Thesis title: "Synthesis and Characterization of Molybdenum and Tungsten Complexes Containing <i>tert</i> - Butylcyclopentadienyl Ligand".
23. MSc in Chemistry – Sana' Ibrahim Abu-Eid, University of Jordan, Jordan, 2000. Thesis title: "Diphenyl-1,2,4,5-Tetrazine: Reaction with α -Alkyl Carbonyl Compounds".

24. MSc in Chemistry – Ibrahim A. Muhidat, Yarmouk University, Jordan, 2000. Thesis title: "Synthesis, Reactions and Spectroscopic Properties of Bis-(4-Substituted-5-Alkylthio 1,2,4-Triazolo-3-YL) Benzenes".
25. MSc in Chemistry – Mazen Rashed Al-Gralleh, Mutah University, Jordan, 1999. Thesis title: "Synthesis and Properties of New Poly (Amide-Imide) Copolymer containing Alpha Amino Acid and Side Chain Liquid Crystalline Mesogenic".
26. MSc in Chemistry – Emad Hussein Abd-AlHadi, Yarmouk University, Jordan, 1998. Thesis title: "Organic Transformation Reactions of Organoiron Thio-Terephthaloyl Chloride Complex".
27. MSc in Chemistry – Eman A. Ta'an, Yarmouk University, Jordan, 1997. Thesis title: "Preparation and Cyclization of Diacylhydrazides of Substituted 1,2,3-Triazoles".
28. MSc in Chemistry – Rufaïda H. Subaihi, Yarmouk University, Jordan, 1996. Thesis title: "Synthesis and Spectroscopic Characterization of Tri-1,3,4-Oxadiazoles".
29. MSc in Chemistry – Adeeb Khalid Al-Sheik, Yarmouk University, Jordan, 1996. Thesis title: "Synthesis and Characterization of Organoiron Chalcogen Complexes".
30. MSc in Chemistry – Huhaina T. Omar, Yarmouk University, Jordan, 1996. Thesis title: "Reactions of Complexed Acid Chlorides of Organoiron Thio-and Seleno-Carboxylate Derivatives".
31. MSc in Chemistry – Fathi Abu-Nimereh, Yarmouk University, Jordan, 1993. Thesis title: "Synthesis and Characterization of Cyclopentadienyl Iron Selecocarboxylate Complexes".
32. MSc in Chemistry – Harbi Al-Masri, Yarmouk University, Jordan, 1993. Thesis title: "Synthesis and Characterization of Organoruthenium Chalcogen Complexes".
33. MSc in Chemistry – Jamil Ibrahim Al-Moustafa, Yarmouk University, Jordan, 1986. Thesis title: "Complexes of some Crown Ethers with Transition Metal Salts".
34. MSc in Chemistry – Hamed S. Khalil, Yarmouk University, Jordan, 1986. Thesis title: "Determination of Diphenoxoylate Hydrochloride and Atropine Sulfate in Tablet Formulations by Reverse Phase High Performance Liquid Chromatography".
35. MSc in Civil Engineering – Said M. Tanash, Yarmouk University, Jordan, 1985. Thesis title: "Bituminous Mix Design using Local Fly Ash Additives".
36. MSc in Civil Engineering - Daher Al-Rashdan, Yarmouk University, Jordan, 1985. Thesis title: "Effects of Dust Collector Finds and Portland Cement on Properties of Binder and Asphalt Concrete".

8. Grants and Contracts

1. Research grant from Yarmouk University, 2001. Grant no. 7/2001. Title: "Reactions of Organic Azides with Naphthoquinone and its Derivatives".
2. Research grant from Yarmouk University, 1999. Grant no. 15/99. Title: "1,3-Dipolar Cycloaddition Reactions of Substituted Benzyl Azides with Benzoquinone Derivatives".
3. Research grant from Deutscher Akademischer Austauschdienst (DAAD), 1995, University of Bayreuth, Germany. Title: "Synthesis and Study of Some Zirconenes".
4. Research grant from Yarmouk University, 1994. Grant no. 63/94. Title: "Synthesis and Study of Triazoles and Isoxazoles via 1,3-dipolar Cycloaddition Reactions".
5. Research grant from Bahrain University, 1989. Title: "Preparation of Isoxazoles and Isoxazoline Compounds via 1,3-Dipolar Cycloaddition Reactions".
6. Research grant from the European Economic Community (EEC), 1987. Title: "Synthesis and Study of Platinum Compounds".
7. Research grant from Deutscher Akademischer Austauschdienst (DAAD), 1986, University of Bayreuth, Germany. Title: "Synthesis and Study of Tin and Boron Compounds".
8. Research grants from Yarmouk University, 1986-1988. Grant nos. 64/86, 22/87, 5/88, 7/88. Title: "The Preparation and Study of some Isoxazoles, Azide and Triazole Compounds".
9. Research grant from Yarmouk University, 1985. Grant no. 07/85. Title: "Investigation of the Cyclopropyl Conjugation among some Heterospiro Compounds".
10. Research grant from Deutscher Akademischer Austauschdienst (DAAD), 1984. Title: "Synthesis and Study of some Carboranes".
11. Research grant from Yarmouk University, 1983. Title: "Synthesis and Biological Studies of Arsabenzene Analogue of Phenylalanine".

9. Honors and Awards

1. Alexander Von Humboldt Fellowship, 2013.
2. Fellow of the Royal Society of Chemistry (FRSC), UK, 2012.
3. "Jewels of the Muslim World" Award for 'Top Movers of the Islamic Economics', Kuala Lumpur, Malaysia, presented during the 2 nd Muslim World Biz Conference, June 2011.
4. "Badge of Honor Medal" presented by the International Scientific Partnership Foundation, Russia, for the Development of Science in Jordan and Arab countries and International Collaboration, 2007.
5. Achievement Award by the American Association for the Advancement of Sciences, Washington DC, USA, 2005.
6. Western Michigan University Distinguished Alumni Achievement Award, Kalamazoo, USA, 2004.
7. Fellowship Award by the Deutscher Adademischer Austausch Dienst, 1995.
8. Alexander von Humboldt Fellowship, 1989.
9. Abdul Hameed Shoman Award for Young Arab Scientists (Basic Sciences), 1989.
10. Fellowship Award by the Deutscher Akademischer Austausch Dienst, 1987. Title: "Syntheses and Study of Tin and Boron Compounds".
11. Fellowship Award by the European Economic Community, 1987. Title: "Syntheses and Study of Platinum Compounds".
12. Symposium Fellow of the Eighth International Symposium on Organosilicon Chemistry, St. Louis, Missouri, USA, 1987.
13. Fellowship Award by the Deutscher Adademischer Austausch Dienst, 1984. Title: "Synthesis and Study of Some Carborane Compounds".
14. Scholarship from Yarmouk University towards a PhD in Chemistry at the University of Michigan, 1977-1981.
15. Scholarship from the Jordanian Ministry of Education towards a BSc in Chemistry at the University of Jordan, 1969-1973.

10. Committees

a. University Committees:
1. Board of Trustees, Modern University for Business and Sciences, Beirut, Lebanon, 2012-present.
2. Board of Trustees, Arab Nayef University for Security Sciences, Riyadh, Saudi Arabia, 2009-present
3. Board of Trustees, Yarmouk University, Mar 2009 – July 2011
4. Board of Trustees, Tafila Technical University, 2005 – Feb, 2009
5. Board of Trustees, Irbid Private University, 1999-200
6. President, Yarmouk University, Mar 2009 – July 2011
7. President, Yarmouk Council, Mar 2009 – July 2011
8. President, Yarmouk University Deans' Council, Mar 2009 – July 2011
9. President, Tafila Technical University, 2005 – Feb, 2009
10. President, Tafila Technical University Council, 2005 – Feb, 2009
11. President, Tafila Technical University Deans' Council, 2005 – Feb, 2009
12. President, Tafila Technical University Promotion and Hiring Committee, 2005 – Feb, 2009
13. President, Tafila Technical University Scholarships Committee, 2005 – Feb, 2009
14. President, Tafila Technical University Scientific Research Council, 2005 – Feb, 2009
15. Jordan University of Science and Technology Council, 2003-2004
16. President, Irbid National University, 2002-2005.
17. Irbid National University Council, 2002-2005
18. Irbid National University Deans' Council, 2002-2005
19. Irbid National University – Promotion and Hiring Committee, 2002-2005
20. Yarmouk University Council 2001-2002, 1998-1990, 1985-1986
21. Yarmouk University Deans' Council, 2001-2002
22. Student Affairs Committee, Yarmouk University, 2001-2002, 1985-1986
23. Ad-Hoc Committees for Promotions to the rank of Associate Professor and Professor, King Fahd University of Petroleum & Minerals, Saudi Arabia, 1996-1998.
24. Committee for Needy Students at Yarmouk University, 1994-2002
25. University Council, Jarash University (private), 1993-1994
26. Counselor for the International Students' Club, Yarmouk University, 1987-1989
27. Environmental Committee, Yarmouk University, 1987-1989

28. Yarmouk University Club Committee, 1986-1987
29. Counselor, Chemistry Students' Association, 1986-1987
30. Committee for the Tenth Anniversary Establishment of Yarmouk University, 1985-1986
31. Committee for the establishment of the Yarmouk University Club, 1985-1986
32. Seminars and Colloquium Committee, Yarmouk University, 1985-1986
b. Faculty Committees:
1. Research Committee, 1998-2001
2. Graduate Studies Committee, 1998-2001, 1987-1988
3. Advisory Committee, 1998-2001, 1987-1988
4. Faculty of Science Council, 1998-2001, 1987-1988
5. Arabization Committee, 1987-1988
c. Departmental Committees:
1. Information Committee, King Fahd University of Petroleum and Minerals (KFUPM), Saudi Arabia, 1997-1998, 1996-1997
2. Seminar Committee (and Seminar Coordinator), KFUPM, Saudi Arabia, 1997-1998, 1996-1997, 1992-1993
3. Graduate Advisory Committee, KFUPM, Saudi Arabia, 1996-1997
4. Research Committee, KFUPM, Saudi Arabia, 1991-1992, 1990-1991
5. Graduates Studies Committee, Bahrain University, Bahrain, 1989-1990
6. Committee for International Conferences, Seminars, and Workshops, Bahrain University, 1989-1990, 1988-1989
7. Social Committee, 1998-2001, 1995-1998, 1994-1995, 1993-1994, 1993-1994, 1987-1998, 1985-1996
8. Laboratories and Safety Committee, 1998-2001, 1987-1988
9. Seminars and Colloquium Committee, 1985-1986
10. Tenders Committee, 1998-2001, 1985-1986
11. Graduate Studies Committee, 1998-2001, 1984-1985
12. Advisory Committee, 1998-2001, 1994-1995, 1986-1987, 1982-1983
13. Colloquium Committee, 1998-Present, 1993-1994, 1983-1984
14. Library Committee, 1983-1984

c. National & International Committees:
i. Editorial Boards
1. Member of Advisory Board, "Journal Materials & Environmental Science", published by the University of Mohammed Premier Oujda, Morocco.
2. Member of the Editorial Board of the Journal "International Journal of Innovative Research & Development", India, 2012- Present.
3. President and Member of the Advisory Board of the Journal of the Association of Arab Universities, Amman, Jordan 2011- Present.
4. Advisory Board member of "Journal of Applicable Chemistry" published by Nagaland University, India, since 2012.
5. Editorial Board of the "International Journal of Chemistry", published by International Book House, Mumbai, India since March, 2012- Present.
6. Editorial Board of the "Mediterranean Journal of Chemistry" published in Morocco, since January 2011
7. Member of the Editorial Board, "International Journal of Academic Research" Bi-monthly, peer-reviewed journal published by the Azerbaijan National Academy of Sciences, Baku, Azerbaijan, since January 2011.
8. Editorial Board of the "International Journal of Heterocyclic Chemistry" published by the Islamic Azad University, Ahvaz, Iran, since July 2010-Present.
ii. Scientific Conferences
9. Member of the International Advisory Committee of the "The 1 st Conference on Science Diplomacy and Developments in Chemistry ", Alexandria, Egypt, 24-26 November 2012.
10. Member of the International Conference Committee of the "International Conference on Global Trends of Pure & Applied Chemical Sciences " (ICGTCS-2012, Udaipur, India, 3-4 March 2012.
11. Member of the International Organizing Committee of the 3 rd International Conference on Heterocyclic Chemistry, University of Rajasthan, Jaipur, India, 10-13 December 2011.
12. Member of the International Advisory Board of the 13 th Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry, Ain Shams University (Egypt), 2011
13. President and Member of the Advisory Board of the 6 th Jordanian International Conference of Chemistry, Yarmouk University (Jordan) 19-22 April 2011.
14. Member of the International Advisory Committee of the Arabic Chemical Conference XV, Baath University, Homs, Syria 20-22 April 2010.
15. Member of the Board of Directors of CADER (Change Agent for Arab Development and Education Reform), Amman, Jordan 2009-2011.
16. Member of the Board of Directors of the Jordanian Electric Power Company, Irbid, Jordan, 2009-2011.
17. Member of the Higher Council for Science and Technology, Jordan, 2008-present.

18. International Scientific Committee, International Conference on “Research to Applications and Markets” organized by the Maghreb-Alexander Van Humboldt Alumni Association, Sfax, Tunisia. June 23-25, 2011
19. International Advisory Board of the 11 th International Chemistry Conference and Exhibition (11 ICCA), Sohag University, Luxor, Egypt. November 20-23, 2010.
20. International Advisory Board of the 11 th Eurasian Conference on Chemical Sciences, Dead Sea, Jordan. August 6-10, 2010.
21. International Advisory Committee, The IV th International Conference CBC-2010 on Modern Aspects of Chemistry of Heterocycles, Moscow State University, International Charitable Scientific Partnership Foundation, Russian Academy of Natural Sciences (RANS) and InterBioScreen, St. Petersburg, Russia. August 2-6, 2010.
22. International Scientific Committee, 6 th Eurasian Meeting on Heterocyclic Chemistry (6 th EAMHC), University of Alicante, Alicante, Spain. June 30 – July 04, 2010.
23. President of the 10 th Jordanian Chemical Conference, Jordan University of Science and Technology, Jordan. May, 2010.
24. International Advisory Board of the Fourth International Symposium on Current Trends in Drug Discovery Research (CTDDR-2010), Central Drug Research Institute, Lucknow University, India. February 17-21, 2010.
25. President of the 9 th Jordanian Chemical Conference, Petra University, Jordan. April, 2009.
26. International Advisory Board of the 11 th Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry, Ain Shams University (Egypt), December 13-16, 2008.
27. Chairman of the Organizing Committee, Chairman of the International Advisory Board, Chairman of the National Advisory Board and President of the First International Conference on Systemic Approach to Teaching and Learning (1st ICSATL), Tafila, Jordan. July 13-15, 2008.
28. International Advisory Board of the 5 th Jordanian International Chemistry Conference, Yarmouk University, Jordan. June 16-19, 2008.
29. President of the 8 th Jordanian Chemical Conference, Petra University, Jordan. April 21, 2008.
30. International Advisory Board of the 5 th Eurasian Meeting on Heterocyclic Chemistry, Kuwait, March 1-6, 2008.
31. Scientific Committee of the 3 rd International Meeting on Molecular Chemistry and Development (RICMD3), Marrakesh, Morocco. November 22-24, 2007.
32. President of Human Development and Security in a Changing World Conference, Tafila, Jordan. July 10-12, 2007.
33. President of the International Advisory Board and President of the Petra International Chemistry Conference and Fifth Trans-Mediterranean Colloquium on Heterocyclic Chemistry, Tafila and Petra, Jordan, June 25-28, 2007.
34. International Organizing Committee of the 12 th Asian Chemical Congress (12 ACC), Kuala Lumpur, Malaysia. August 23-25, 2007.

35. President of the 7 th Jordanian Chemical Conference, Al-al-Bayt University, Jordan. March 24, 2007.
36. International Advisory Board of the 10 th Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry, Luxor, Egypt. February 17-20, 2007.
37. International Organizing Committee of the Second International Conference on Heterocyclic Chemistry, Jaipur, India. December 16-19, 2006.
38. International Advisory Board of the Fourth Eurasian Conference of Heterocyclic Chemistry, Aristotle University of Thessaloniki, Greece. August 26-31, 2006.
39. President of the 6 th Jordanian Chemical Conference, Al Hashemite University, Jordan. April 23, 2006.
40. International Advisory Board of the 2 nd International Symposium on Drug Discovery and Process Research, Belgaum, Karnataka, India. February 10-12, 2006.
41. President of the 5 th Jordanian Chemical Conference, Mutah University, Jordan, April 23, 2005.
42. International Advisory Board of the Fifth Arab Conference on Systemic Approach to Teaching and Learning, Ain Shams University, Egypt. April 16-17, 2005.
43. International Advisory Board of the 9 th Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry, Sharm El-Sheikh, Egypt. December 11-14, 2004.
44. International Advisory Board of the Second International Conference on Natural Products and Physiologically Active Substances and the Third Euro-Asian Conference of Heterocyclic Chemistry, Novosibirsk, Russia. September 12-17, 2004.
45. President of the 4 th Jordanian Chemical Conference, Jordan University of Science and Technology, Jordan. April 22, 2004.
46. International Advisory Board of the Fourth Arab Conference on Systemic Approach Teaching and Learning, Ain Shams University, Egypt. April 3-4, 2004.
47. Scientific Committee of the First French-Syrian Meeting on Chemistry, Homs, Syria. November 29-December 3, 2003.
48. President and Chairman of the Organizing Committee of the 12 th Arabian Chemistry Conference and the 5 th Jordanian Chemistry Conference, Amman, Jordan. October 21-24, 2003.
49. International Advisory Board of the Third Arab Conference on Systemic Approach to Teaching and Learning, Ain Shams University, Egypt. April 5-6, 2003.
50. International Advisory Board of the Second Eurasian Conference of Heterocyclic Chemistry, Novgorod, Russia. September 14-17, 2002.
51. International Advisory Board of the Ninth Blue Danube Symposium on Heterocyclic Chemistry. Tatranska Lomnica, Slovak Republic. June 16-19, 2002.
52. Chairman of the Organizing Committee and President of the Third Jordanian International Conference on Chemistry, Irbid, Jordan. April 22-26, 2002.
53. International Advisory Board of the 8 th Ibn Sina International Conference on Heterocyclic Chemistry, Luxor, Egypt. February 16-18, 2002.

54. International Advisory Board of the Second Arab Conference on a Systemic Approach to Teaching and Learning, Ain Shams University, Egypt. February 10-11, 2002.
55. International Organizing Committee of the International Conference on Heterocyclic Chemistry, Jaipur, India. December 15-18, 2001.
56. International Advisory Board of the First Arab Conference on Systemic Approach to Teaching and Learning, Ain Shams University, Egypt. February 17-18, 2001.
57. International Advisory Board of the First Eurasian Conference of Heterocycles in Organic and Combinatorial Chemistry, Suzdal, Russia. September 16-19, 2000.

iii. Councils and Committees

1. Member of the Steering Committee of the First Higher Education Leadership Forum 2013 on “Becoming a “World-Class University” in a Modern Context: Challenges Opportunities and Strategies Forward”, Dubai, 12-13 Nov. 2013.
2. Member of ACIS-American Council for International Students- San Diego, March 2013.
3. Member of the Steering Committee of Going Global 2013, Dubai, 4-6 March 2013.
4. Advisory Council Member of Talal Abu-Ghazaleh Graduate School of Business, Amman, Jordan, 2011.
5. Higher Committee for Scientific Research, Ministry of Education and Scientific Research, Jordan. 2001-2005.
6. Sports Federation of Jordanian Universities, Jordan. 2001-2003.
7. Evaluation Committee for Private Universities, Ministry of Higher Education, Jordan. 1994, 1999-2002.
8. Chairman of the Organizing Committee and President of the Second International Conference on Pure, Applied and Environmental Chemistry, Irbid, Jordan. April 17-21, 2000.
9. Supervising Committee for Writing High School Level Chemistry Text Books, Ministry of Education, Jordan. 1993-Present
10. Professional Examination Committee for Community Colleges, Jordan. 1988, 1986, 1984.
11. Organizing Committee for the Eighth Arabian Chemical Conference, Amman, Jordan. June 1988.
12. Committee for the Jordanian Academy of Arabic for Scientific and Technical Terms, Jordan. 1986-1987.
13. Committee for Establishing a Dictionary for General Chemistry terms for the Arab world.

11. Community Service

1. Lecturer at the Chemistry Workshop for High School Supervisors and Teachers in the Northern Provinces, Yarmouk University, Irbid, Jordan. Jan 24-Feb 7, 1999.
2. President and Member of the Board of Directors of the Consumers' Cooperative Society, Yarmouk University, Irbid, Jordan. 1994-1996 and 1999-2005.
3. Member of the Parents' Council at the Yarmouk University Model School, Irbid, Jordan. 1993-1995.
4. Lecturer at the Chemistry Symposium for High School Teachers in Irbid Governorate, Irbid, Jordan. Aug 10-22, 1985
5. Member of the Professional Examination Committee for Community Colleges, Jordan. 1984, 1986, 1988.

12. Membership of Scientific and Professional Societies

1. Member of Going Global Organization, UK, 2013.
2. Member of the World Affairs Council, Jordan, 2012-present
3. Fellow of the Royal Society of Chemistry, UK, 2013-Present
4. Member of the World Affairs Council, Amman (Jordan), 2011-Present.
5. Member of the Scientific Research Committee, Amman (Jordan), 2007-Present.
6. Member of the Academic Jordanian Society, 2011-Present.
7. President, Arab Union of Chemists, 2010 – 2012.
8. Secretary General, Arab Union of Chemists, 2007 – 2010.
9. President, Arab Union of Chemists, 2003 – 2005.
10. President, Jordanian Chemical Society, 2001- 2012.
11. Member of the Board of Directors, Saudi Arabian International Chemical Sciences Chapter-American Chemical Society (SAICS – ACS), 1997 - 1999
12. Member, Saudi Arabian International Chemical Sciences Chapter-American Chemical Society (SAICS – ACS), 1990 - Present
13. Member, International Society of Heterocyclic Chemistry, 1989 – Present
14. Member, International Union of Pure and Applied Chemistry (IUPAC), 1989 – Present
15. Vice President, Jordanian Chemical Society, 1983 – 1986
16. Member, Jordanian Chemical Society, 1982 – Present
17. Member, American Chemical Society, 1976 – Present
18. Member, Jordanian Alumni Society for Graduates of U.S. Universities
19. Member, Society of Scientific Research at Public Universities, Jordan

13. Scientific and Professional Meetings

1. The Annual 6 th meeting of Federation of Universities of the Islamic World, Imam Mohammad Ibn Saud Islamic University, Riyadh, Saudi Arabia. November 2013.
2. MENA-CLICKS Conference Connecting Regional Leaders of Higher Education, Clicks-Center for Learning Innovations & Customized Knowledge Solutions. Dubai, November 2013.
3. The 4 th days Scientific Conference, Society of Arab Faculties & Institutes of Physiotherapy, University Saint Joseph, Lebanon, November 2013.
4. CONFREMO, the 6 th conference for Presidents of Francophonic Universities in the Middle East, Agence Universitaire de la Francophonie, Al-Hikma University, Lebanon, November 2013.
5. The 15 th meeting of Scientific Society of Arab Nursing Faculties, Al-Jinan University, Tripoli, Lebanon November, 2013.
6. The 9 th World Islamic Economic Forum, Promoting Transitional Education, London UK, October 2013.
7. UNAM, Promoting Modernization & Strengthening Institutional, Financial Autonomy in Southern Neighboring Areas. – TEMPUS Funded, UPST, Amman Jordan, October 2013.
8. EAIE Conference, European Association for Int'l Education, Turkey. September, 2013
9. Partners in Protecting Arabic Language from Danger Conference, International Council for Arabic Language & UNESCO, Dubai, May 2013.
10. The 4 th Islamic Waqf Conference, Towards a strategy for the advancement of integrative Islamic Waqf, Madina Monawara, Saudi Arabia, March 2013.
11. The International Conference for Deans of Arts Faculties, AlMansoura University, Egypt, Aril, 2013.
12. The 3 rd Association of Arts Faculties Conference, Helwan University, Egypt, April, 2013.
13. The 46 th AARU's General Conference, Salahdeen University, Erbil, March 2013.
14. The 2nd International Platform on Integrating Arab e-infrastructure in a Global Environment e-AGE 2012 at Zayed University in Dubai, UAE 17 December 2012.
15. The Annual Workshop of the International University Council on “Values, concepts, beliefs and cultures in Internationalization in Higher Education”, University of Duhok, Erbil, Iraq 14-17 December. 2012.
16. The 14 th Board Meeting of the Arab Council for Higher Studies and Scientific Research, Cairo University, Egypt 6 December 2012.
17. The 14th IAU General Conference organized in partnership with the Inter American University of Puerto Rico, San Juan, Puerto Rico, 27-30 November 2012.

18. The 1st Conference on Science Diplomacy and Developments in Chemistry” (CSD-DC-20121) organized by the Alexandria University and Bibliotheca Alexandrina, Alexandria 24-26 November 2012.
19. Conference on "The future of ranking? Cooperation or/and competition" university of Bucharest – Romania, 16-17 November 2012.
20. The Regional Workshop on “Innovation and Commercialization for Economic Development” organized by ESCWA , Amman 12 November 2012.
21. The Meeting to follow up EQuAM TEMPUS Project at Barcelona University, Spain 27 Oct.-1. November 2012.
22. Conference on “"Spotlight on the Mediterranean Area: Uniting our efforts for the future." Organized by the Cyprus Presidency of the EU Council together with the Transnational Cooperation Programme MED and the Neighborhood Cross-border Cooperation Programme in the Mediterranean Sea Basin ENPI MED Cyprus 24 - 25 October 2012.
23. The Federation of Asian Chemical Society EXCO meeting in Siem Reap, Cambodia on, October 20, 2012 in conjunction with the Cambodian Malaysian Chemical Conference (CMCC) ,Siem Reap, Cambodia, October 19-21, 2012.
24. The Steering Committee of the British Council for Going Global 2013, Sri Lanka 15-17 October 2012.
25. The 1st Arab-Malaysian Global Higher Education Summit held at Universiti Sains Islam Malaysia (USIM), Malaysia, 3-6 October 2012.
26. The 3rd International Conference on Islam and Higher Education held by International Institute of Advanced Islamic Studies (IAIS), Kuantan, Malaysia, 30 September – 2 October 2012.
27. The Humboldt Kolleg “Pharmaceutical and Biotechnological Therapies” held by German University in Cairo, Cairo, Egypt, 28 September 2012.
28. The Meeting of the Executive Council of the Association of Arab universities at Notre Dame University, Lebanon 20-22 September 2012.
29. The Arab International Conference on the Role of Private Sector in Technology Development, Rabat, Morocco, 6-8 June 2012.
30. The 1st Engineering and Technology Education Conference held by Royal Commission for Jubail and Yanbu, Saudi Arabia, 14-15 May 2012.
31. The Third Bologna Policy Forum and 2012 EHEA Ministerial Conference, Bucharest, Romania, 26-27 April 2012.
32. The First Arab Conference on HE Strategies and Human Resources Planning in cooperation with AArU, Cairo University, Hashemite University, ARADO in the Hashemite University, Zarqa, Jordan, 24-26 April 2012.

33. The Tenth conference of the Society of Faculties of Arts at Arab Universities on Quality in Faculties of Arts, Saint Joseph University, Lebanon, 19-20 April 2012.
34. The Conference of Israa University on “Enriching the Arabic Content on the Internet” Israa University, Amman, Jordan 16 April 2012.
35. The joint Case-Mix workshop organized by the Association of Arab Universities and United Nations University of Malaysia , Amman, Jordan, 18-19 April 2012.
36. The 2012 Fulbright Regional Conference on : “Adapting to a Changing World: Fulbright in the 21st Century”, Dead Sea, Jordan, 16-18 April 2012.
37. The First International Conference of the Arabic Language, Islamic University in Madina, Saudi Arabia, 9-11 April 2012.
38. The international scientific conference of the Arab Society of Faculties of Business, Economic and Political Sciences on “Crises, Globalization and Governance: How to Draw Lessons?” the Holy Spirit University of Kaslik, Lebanon, 2-3 April 2012.
39. The Conference on Nanotechnology for Advanced material and Devices, co-organized with University of Illinois, An Najah National University, the Palestine Technical University at Kadoori, Nablus, Palestine, 26-28 March 2012.
40. The 45th session of the General Conference of the Association of Arab Universities in Sidi Mohamed Ben Abdullah University, Fes, Morocco, 20-21 March 2012.
41. The International Conference on Global Trends in Pure and Applied Chemical Sciences, Udaipur, India. March 3-4, 2012.
42. The Regional Conference on the future of Higher Education within the Middle East and North Africa region organized by the British Council, Rabat, 21-22 February 2012.
43. Board of Trustees meeting of the Association of Arab and European Universities (AEUA), Amsterdam, 10-11 February 2012.
44. The 9th Meeting of the Society of Faculties of Sciences, Members of the Association of Arab Universities, The Holy Spirit University, Lebanon, 7-9 February 2012.
45. Seminar on “Joint Degrees – A Catalyst or a Challenge for Quality Assurance?” organized by ANQAHE and DAAD, Cairo, Egypt, 28-29 January 2012.
46. The International Conference of Deans of Scientific Research at Arab Universities, Al Aqsa University, Gaza, 24-26 January 2012.
47. Regional Workshop on “A Holistic Approach to Achieve Quality in Higher Education”, Amman, Jordan, 11-12 January 2012.
48. The Meeting of the Executive Council of the Association of Arab universities at Al Zaytoona University, Jordan 28 December 2012.
49. The Scientific Conference of Al Zaytoona University on” Role of Private Universities in supporting the march of Higher Education”, Amman, Jordan, 28 December 2011.

50. ANQAHE Conference on “Quality Assurance in Higher Education: Challenges in the Arab Region”, Abu Dhabi, UAE, 13-15 December 2011.
51. 3rd International Conference on Heterocyclic Chemistry, Jaipur, India, 10-13 December 2011.
52. International Conference on "Renovationist Movements in Islam",Kazan, Russia, 1-2 December 2011.
53. Forum & Exhibition on “ Higher Education Services in the OIC Member States” Girne, Turkish Republic of Northern Cyprus, 28 November – 1 December 2011.
54. Seminar on “ Higher Education in Jordan” at the Embassy of Malaysia, Amman, Jordan, 23 November 2011.
55. The seminar on “Role of Private Sector in financing scientific research”, Princess Sumaya University for Science and Technology, Amman, Jordan, 21-22 November 2011.
56. The Fourth International Chemistry Conference, Saudi Chemical Society, Riyadh, Saudi Arabia, 19-21 November 2011.
57. The 2nd International Conference on Islam and Higher Education, International Institute of Advanced Islamic Studies (IAIS), Kuantan, Malaysia, 14-16 November 2011
58. The Higher Education International Conference, Modern University for Business and Science , Beirut, Lebanon, 31 Oct.-2 Nov. 2011.
59. The 18th Conference of the Islamic Academy of Sciences (IAS) on: “The Islamic World And The West: Rebuilding Bridges Through Science & Technology”, Doha,Qatar,22-24 October 2011.
60. The 4th International Scientific multi- Conference of Salahaddin University-Erbil, Kurdistan, Iraq, 18-20 October 2011.
61. The Scientific conference of Sidi Mohamed ben Abdellah University, Fes, Morocco, 21 September 2011.
62. The SOAS CIS conference on " Envisioning the Future of the Islamic World in the Era of Uncertainties: Views of Scholars”, University Brunei Darussalam, Brunei, 15-17 September 2011.
63. The 14th Asian Chemical Congress (14ACC) , The Chemical Society of Thailand, Bangkok, Thailand, 5-8 September 2011.
64. Presidents' Meeting of the Arab European Universities Association (AEUA), Groningen, The Netherlands, Jul 3-6, 2011
65. The Humboldt-Kolleg conference on “Research to Applications and Markets, Monastir, Tunis, June 23-25 2011.
66. The 2nd Muslim World Biz Exhibition and Conference, Organization of the Islamic Conference, Kuala Lumpur, Malaysia, June 8-11, 2011.

67. The Sixth Jordanian International Conference of Chemistry and The 11th Jordanian Chemical Conference, Yarmouk University, Irbid, Jordan. April 19-21, 2011
68. The 44th session of the General Conference of the Association of Arab Universities be held at Jordan University, Amman, Jordan, March 15-16, 2011.
69. National Values, Concepts, Beliefs and Cultures in Higher Education within Internationalization International Workshop, International Universities Council, Ankara, Turkey. Dec 15-17, 2010
70. The 11th International Chemistry Conference and Exhibition (11ICCA), Sohag University, Luxor, Egypt. Nov 20-23, 2010.
71. The IVth International Conference CBC-2010 on Modern Aspects of Chemistry of Heterocycles, Moscow State University, International Charitable Scientific Partnership Foundation, Russian Academy of Natural Sciences (RANS) and InterBioScreen, St. Petersburg, Russia. Aug 2-6, 2010.
72. 6th Eurasian Meeting on Heterocyclic Chemistry, University of Alicante, Alicante, Spain. Jun 30 – Jul 04, 2010.
73. The 5th General Conference of the Federation of the Universities of the Islamic World, Baku, Azerbaijan. May 12-14, 2010.
74. Arabic Chemical Conference, Baath University, Homs, Syria. Apr 20-22, 2010.
75. Workshop on Materials Science in Jordan, the Jordanian Club of Humboldt Fellows, Amman, Jordan. Apr 10-12, 2010.
76. Seventh International Scientific Conference on Environment, Development, and Nanotechnology (ISCAZ 2010), Al-Azhar University, Cairo, Egypt. Mar 22-24, 2010.
77. Symposium on 'Secondary Education – Experiences and New Directions', Ministry of Education, United Arab Emirates in cooperation with the Arab Bureau of Education for the Gulf States, Dubai, UAE. Feb 24, 2010.
78. International Conference on Energy, Water & Climate Change in the Mediterranean & the Middle East, The Cyprus Institute, Nicosia, Cyprus. Jan 11-15, 2010.
79. The Third Arab Conference of Arab Universities – Challenges and Horizons, Sharm el Sheikh, Egypt, Jan 9-11, 2010.
80. International Symposium on Science and Higher Education in the Middle East: Present and Future, Yeditepe University, Istanbul, Turkey. Dec 17-18, 2009.
81. 28th session of Union of Arab Chemists, Tunisia. 3-4 April 2009.
82. The 11th Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry, Ain Shams University, Egypt. Dec 13-16, 2008.
83. First Winter School on a Systemic Approach to Teaching and Learning Chemistry, Karachi, Pakistan. Nov 19-29, 2008.
84. Petra Conference IV of Nobel Laureates: "Reaching for New Economic, Scientific and Educational Horizons", Petra, Jordan. Jun 17-19, 2008.

85. The 5th Jordanian International Chemistry Conference, Yarmouk University, Irbid, Jordan. Jun 15-17, 2008.
86. XIV International Conference: Energy Crisis, Water Shortage and Climate Changes in the Mediterranean Area: The Involvement of Chemistry, Castiglione Della Pescaia, Italy. May 2-6, 2008.
87. The 8th Jordanian Chemistry Conference, Petra University, Jordan. April 21, 2008.
88. 41st General Assembly of Arab Universities Association, Arab Nayef University for Security Sciences, Riyadh, Saudi Arabia. Apr 13-16, 2008.
89. The 14th Arab Chemistry Conference, Tripoli, Libya. Mar 30-Apr 3, 2008.
90. The 5th Eurasian Meeting on Heterocyclic Chemistry, Kuwait, March 1-6, 2008.
91. Frontiers of Chemical Sciences III: Research and Education in the Middle East, Istanbul, Turkey. Dec 8-13, 2007.
92. The 3rd International Meeting on Molecular Chemistry and Development, Marrakesh, Morocco. Nov 22-24, 2007.
93. Second Basic Sciences Conference, Al-Fatah University, Libya. Nov 4-8, 2007.
94. The 3rd Conference of Egyptian Humboldtians "Development of Chemical Research through German-Egyptian Cooperation, Ismailia, Egypt. Oct 23-26, 2007.
95. The 12th Asian Chemical Congress (12 ACC), Kuala Lumpur, Malaysia. Aug 23-25, 2007.
96. International Conference on Organic Chemistry, Ataturk University, Erzurum, Turkey. Jun 5-9, 2007.
97. 44th IUPAC General Assembly, Torino, Italy. Aug 4-12, 2007.
98. Saudi National Conference in Chemistry, Makka, Saudi Arabia. Apr 15-17, 2007.
99. The 10th Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry, Luxor, Egypt. Feb 17-20, 2007.
100. Second International Conference on Heterocyclic Chemistry, University of Rajasthan, Jaipur, India. Dec 16-19, 2006.
101. The First Conference on Recent Developments in Chemistry and their Applications, Sebha University, Libya. Nov 14-16, 2006.
102. The Second Jordanian Egyptian Conference on a Systemic Approach of Teaching and Learning, Tafila, Jordan. Jul 18-20, 2006.
103. The Fourth Trans-Mediterranean Colloquium on Heterocyclic Chemistry, University of Aveiro, Portugal. Jun 23-27, 2006.
104. The Second International Symposium Drug Discovery and Process Research, Belgaum, Karnataka, India. Feb 10-12, 2006.

105.	10th General Assembly of Ministers of Higher Education and Scientific Research in the Arab Countries, Taaz, Yemen. Dec 5-8, 2005.
106.	The 13th Arab Chemistry Conference, Kuwait. Nov 28-29, 2005.
107.	Conference on Frontiers of Chemical Sciences II: Research and Education in the Middle East, Malta. Nov 5-10, 2005.
108.	13th General Assembly of the Federation of Asian Chemical Societies (13th-GA) and the 11th Asian Chemical Congress (11th ACC), Korea University, Seoul, Korea. Aug 24-26, 2005.
109.	40th International Union of Pure and Applied Chemistry (40th IUPAC) Congress, and 43rd IUPAC General Assembly, Beijing, China. Aug 14-21, 2005.
110.	9th Ibn Sina International Conference On Pure and Applied Heterocyclic Chemistry, Sharm El-Sheikh, Egypt. Dec 11-14, 2004.
111.	The Second Arab Chemistry Conference, Applied Science University, Amman, Jordan. Apr 21-23, 2004.
112.	The Third Arab Conference on a Systemic Approach in Teaching and Learning, Ain Shams University, Egypt. Apr 5-6, 2004.
113.	Frontiers of Chemical Science: "Research and Education in the Middle East", Malta. Dec 6-11, 2003.
114.	The First Syrian-French Chemistry Symposium, Homs, Syria. Nov 29-Dec 3, 2003.
115.	The 12th Arab Chemistry Conference and the 5th Jordanian Chemistry Conference, Amman, Jordan. Oct 21-24, 2003.
116.	The Fifth Portuguese Organic Chemistry Conference, University of Aveiro, Portugal. Jul 1-4, 2003.
117.	The Second Arab Conference on the Systemic Approach in Teaching and Learning, Ain Shams University, Egypt. Feb 10-11, 2003.
118.	Silver Jubilee Conference, Bangladesh Chemical Society, Jahangirnagar University, Dhaka, Bangladesh. Jan 11-13, 2003.
119.	The Third Jordanian International Conference of Chemistry, Yarmouk University, Jordan, Apr 22-26, 2002.
120.	International Conference on Heterocyclic Chemistry, Jaipur, India. Dec 15-18, 2001.
121.	The First Arab Chemistry Conference, Applied Science University, Amman, Jordan. Oct 31-Nov 2, 2001.
122.	The First Scientific Day, Faculty of Arts and Sciences, Al al-Bayt University, Jordan. May 8, 2001.
123.	The Second Scientific Conference, Fourth Scientific Day, Faculty of Arts and Sciences, Jordan University of Science and Technology, Jordan. Apr 15, 2001.

124.	The First Arab Conference on a Systemic Approach in Teaching and Learning, Ain Shams University, Egypt. Feb 17-18, 2001.
125.	40th Science Week, Latakia, Syria. Nov 4-9, 2000.
126.	First Eurasian Conference of Heterocyclic, Inorganic and Combinatorial Chemistry, Suzdal, Russia. Sep 16-19, 2000.
127.	The First Scientific Conference, Third Scientific Day, Faculty of Arts and Sciences, Jordan University of Science and Technology, Jordan. May 23, 2000.
128.	2nd International Conference of Pure, Applied and Environmental Chemistry, Yarmouk University, Jordan. Apr 17-21, 2000.
129.	The 7th Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry, Alexandria University, Egypt. Mar 25-28, 2000.
130.	Second European-Mediterranean Conference on Application of Photobiology and Laser Technologies in Medicine and Environment, Cairo, Egypt. Feb 13-16, 1998.
131.	Seventh Annual Symposium - Catalysts in Petroleum Refining and Petro-Chemicals, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia. Nov 30-Dec 2, 1997.
132.	Chemical and Catalytic Reaction Engineering Workshop, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia. May 11-12, 1997.
133.	The Third International Conference on Chemistry in Industry, Bahrain. Nov 18-20, 1996.
134.	Thirty Fifth Science Week, Latakia, Syria. Nov 4-9, 1995.
135.	Hong Kong International Symposium on Heterocyclic Chemistry, Hong Kong, Aug 13-16, 1995.
136.	Fifteenth International Congress of Heterocyclic Chemistry, Taipei, Taiwan. Aug 6-11, 1995.
137.	Fourteenth International Congress of Heterocyclic Chemistry, Antwerp, Belgium. Aug 1-6, 1993.
138.	Workshop on Thermoplastics Beyond the Year 2000, Research Institute, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia. Apr 4-5, 1993.
139.	Second Saudi-Japanese Workshop on "Petroleum Refining and Petro-Chemical Processes" Research Institute, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia. Dec 12-13, 1992.
140.	Saudi-French Seminar on "Oil and Gas Technology", Research Institute, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia Dec 6-7, 1992.
141.	The First International Conference on Chemistry in Industry, Bahrain, November 14-16, 1992.

142.	Joint Saudi-Japanese Workshop on "Petroleum Refining and Gas Conversion", Research Institute, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia. May 26-27, 1992.
143.	Workshop on "Recent Advances in Liquid and Ion Chromatography" organized by the Water Resources and Environment Division in coordination with IDCO and Waters Division Millipore Research Institute, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia, Oct 23-24, 1991.
144.	The Fifteenth Iraqi Chemical Conference, Basrah, Iraq, Feb 3-7, 1990.
145.	The Eighth Arab Chemical Conference, Amman, Jordan. Jun 20-23, 1988.
146.	The Third Chemical Congress of North America, Toronto, Canada. June 5-10, 1988.
147.	Eleventh International Congress of Heterocyclic Chemistry, Heidelberg, Germany. Aug 16-21, 1987.
148.	Eighth International Symposium on Organosilicon Chemistry, St. Louis, USA, Jun 7-12, 1987.
149.	Symposium for Scientific Symbols, Jordan Academy of Arabic, Amman, Jordan. Jan 27-29, 1987.
150.	The Third Symposium of Chemistry and Society, Jordan Chemical Society, Amman, Jordan, Jan 10-11, 1987.
151.	The Metrology Symposium, Arab Organization for Standardization and Metrology, University of Jordan, Amman, Jordan. Nov 24-26, 1986.
152.	The Fifteenth IUPAC International Symposium on the Chemistry of Natural Products, The Hague, Netherlands. Aug 17-22, 1986.
153.	The 13th Iraqi Chemical Conference, Iraqi Chemical Society, Irbil, Iraq. Mar 21-26, 1986.
154.	The Second Symposium of Chemistry and Society, Jordan Chemical Society, Amman, Jordan, Jan 8-9, 1986.
155.	The Fifth Arabization Conference for Science, Jordan Academy of Arabic, Amman, Jordan. Sep 21-25, 1985.
156.	Fertilizer Industry Seminar, Royal Scientific Society, Amman, Jordan. Oct 21-22, 1984.
157.	Environmental Chemistry Seminar, Arab Chemical Research Program, University of Jordan, Amman, Jordan. Jan 17-19, 1983.
158.	Science Faculties Conference, Chemistry Division, Amman, Jordan. Oct 1982.
159.	American Chemical Society Regional Meeting, Midland, Michigan, U.S.A. Jun, 1982.
160.	American Chemical Society, Silicon Symposium, Ann Arbor, MI, USA. Mar 1979.

14. Abstracts Submitted at Scientific Meetings

1. Sultan T. Abu-Orabi , <i>Scientific Research and Higher Education in the Arab World: Reality and Outlook</i> , Scientific Research Society, Amman, Jordan, 26 December 2012. (Invited speaker).
2. Sultan T. Abu-Orabi , <i>Higher Education and Scientific Research in the Arab World</i> , The 1st Conference on Science Diplomacy and Developments in Chemistry” (CSD-DC-20121) organized by the Alexandria University and Bibliotheca Alexandrina, Alexandria 24-26 November 2012. Abstract # 58 (Plenary Lecture)
3. Sultan T. Abu-Orabi , <i>Scientific Research and Higher Education in the Islamic World</i> , Conference on "The future of ranking? Cooperation or/and competition" university of Bucharest, Romania, 16-17 November 2012.
4. Sultan T. Abu-Orabi , <i>Scientific Research and Higher Education in the Islamic World</i> , The Regional Workshop on “Innovation and Commercialization for Economic Development” Amman, Jordan, 12 November 2012 (Invited speaker)
5. Sultan T. Abu-Orabi , <i>Utilization of 1,3- Dipolar Cycloaddition Reactions of Azides in the Synthesis of 5-Membered Ring Heterocyclic Compounds</i> , Cambodian Malaysian Chemical Conference (CMCC) 2012 and 62nd FACS EXCO Meeting Siem Reap, Cambodia, 20 October 2012 (Invited speaker)
6. Sultan T. Abu-Orabi , <i>Awqaf and Higher Education in the Islamic World</i> , the 3rd International Conference on Islam and Higher Education, Malaysia, September 31, 2012. (Invited speaker)
7. Sultan T. Abu-Orabi , <i>Scientific Research in the Arab World</i> , Humboldt Kolleg conference on “Pharmaceutical and Biotechnological Therapies , German University in Cairo, Egypt, 28 September-1 October 2012. (Invited speaker)
8. Sultan T. Abu-Orabi , <i>Role of Private Sector in Scientific Research and Higher Education in the Arab World</i> , The Arab International Conference on the Role of Private Sector in Technology Development, Rabat, Morocco, 6-8 June 2012. (Invited speaker)
9. Sultan T. Abu-Orabi , <i>Scientific Research and Higher Education in the Islamic World</i> , The 1st Engineering and Technology Education Conference held by Royal Commission for Jubail and Yanbu, Saudi Arabia, 14-15 May 2012 (Invited speaker)
10. Sultan T. Abu-Orabi , <i>Higher Education in the Arab World</i> , The 2012 Fulbright Regional Conference on : “Adapting to a Changing World: Fulbright in the 21st Century”, Dead Sea, Jordan, 16-18 April 2012. (Invited Lecture)
11. Sultan T. Abu-Orabi , <i>Utilization of 1,3-Dipolar Cycloaddition Reaction of Azides in the Synthesis of 5-Membered Ring Heterocyclic Compounds</i> , The International Conference on Global Trends in Pure and Applied Chemical Sciences, Udaipur, India. March 3-4, 2012. (Plenary Lecture)

12. Sultan T. Abu-Orabi , <i>Scientific Research in the Arab World</i> , The British Council Regional Conference on the future of higher education for countries within the Middle East and North Africa region, Rabat, Morocco. February 21-22, 2012. (Invited Lecture)
13. Sultan T. Abu-Orabi , <i>Scientific Research in the Middle East: Present and Future</i> , First International Conference for Deans of Scientific Research and Higher Education in the Arab World, Al Aqsa University, Gaza, Palestine. January 25, 2012. (Invited Lecture).
14. Sultan T. Abu-Orabi , <i>Utilization of 1,3-Dipolar Cycloaddition Reaction of Azides in the Synthesis of 5-Membered Ring Heterocyclic Compounds</i> , The 3rd International Conference on Heterocyclic Chemistry, Jaipur, India. December 10-13, 2011, Abstract # 8 (Plenary Lecture)
15. Sultan T. Abu-Orabi , <i>Higher Education in the Islamic World</i> , The International Conference on "Renovationist Movements in Islam", Kazan, Russia. December 1-2, 2011.
16. Sultan T. Abu-Orabi , <i>Higher Education in the Islamic World</i> , The Forum & Exhibition on "Higher Education Services in the OIC Member States", Girne, Turkish Republic of Northern Cyprus. November 28-December 1st, 2011. (Invited Lecture)
17. Sultan T. Abu-Orabi , <i>Scientific Research in the Middle East: Present and Future</i> , Seminar on the Role of Private Sector in Financing Scientific Research, Princess Sumaya University for Technology, Amman, Jordan. November 21-22, 2011. (Plenary Lecture)
18. Sultan T. Abu-Orabi , <i>Scientific Research in the Arab World: Current Status and Future Prospects</i> , The Fourth International Chemistry Conference, Riyadh, Saudi Arabia. November 19-21, 2011, Abstract # 9 (Plenary Lecture)
19. Sultan T. Abu-Orabi , <i>Higher Education in the Islamic World</i> , The 2 nd International Conference on Islam and Higher Education, Kuantan, Malaysia. November 14-16, 2011. (Plenary Lecture)
20. Sultan T. Abu-Orabi , <i>Scientific Research in the Arab & Islamic World</i> , The Higher Education International Conference 2011, Modern University for Business and Science, Beirut, Lebanon. October 31 st - November 2 nd , 2011. (Invited Lecture)
21. Sultan T. Abu-Orabi , <i>Scientific Research and Higher Education in the Islamic World</i> , The SOAS CIS International Conference on "Envisioning the Future of the Islamic World in the Era of Uncertainties: Views of Scholars", Brunei Darussalam, September 15-17, 2011.
22. Sultan T. Abu-Orabi , <i>Scientific Research in the Arab & Islamic World</i> , The Humboldt-Kolleg conference on Research to Applications and Markets, Monastir, Tunisia. June 23-25, 2011. (Plenary Lecture)
23. Sultan T. Abu-Orabi , <i>Ab Initio Thermochemistry and Spectroscopy Study of the 1,3-Dipolar Cycloaddition Reaction of Benzyl Azide with Cyclohex-2-En-1-One in Gas-Phase</i> , The 6 th Jordanian International Conference of Chemistry, Yarmouk University, Irbid, Jordan. Apr 19-21, 2011. (Poster)

24. Sultan T. Abu-Orabi , <i>Utilization of 1,3-Dipolar Cycloaddition Reaction of Azides toward the Synthesis of 5-Membered Heterocyclic Compounds</i> , The 11 th International Chemistry Conference and Exhibition in Africa, Luxor, Egypt. Nov 20-23, 2010. (Invited Lecture)
25. Sultan T. Abu-Orabi , <i>Utilization of 1,3-Dipolar Cycloaddition Reaction of Azides toward the Synthesis of 5-Membered Heterocyclic Compounds</i> , 11 th Eurasia Conference on Chemical Sciences, Amman, Jordan. Oct 06-10, 2010. (Invited Lecture)
26. Sultan T. Abu-Orabi , <i>Synthesis and Study of Some Heterocyclic Compounds</i> , The IV th International Conference CBC-2010 on Modern Aspects of Chemistry of Heterocycles, Moscow State University, International Charitable Scientific Partnership Foundation, Russian Academy of Natural Sciences (RANS) and InterBioScreen, St. Petersburg, Russia. Aug 2-6, 2010. (Invited Lecture)
27. Sultan T. Abu-Orabi , <i>Scientific Research in the Middle East: Present and Future</i> , International Symposium on Science and Higher Education in the Middle East: Present and Future, Yeditepe University, Istanbul, Turkey. Dec 17-18, 2009. (Invited Lecture).
28. Sultan T. Abu-Orabi , The 11 th Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry, Ain Shams University, Egypt. Dec 13-16, 2008. Abstract # P1-7 (Plenary Lecture).
29. Sultan T. Abu-Orabi , <i>The Necessity for Nuclear Power in Jordan</i> , XIV International Conference: Energy Crisis, Water Shortage and Climate Changes in the Mediterranean Area: The Involvement of Chemistry, Castiglione Della Pescaia, Italy. May 2-6, 2008. Abstract # 15 (Invited Lecture)
30. Sultan T. Abu-Orabi , <i>1,3- Dipolar Cycloaddition Reactions in Synthesis of Heterocyclic Compounds</i> , 5 th Eurasian Meeting on Heterocyclic Chemistry, Kuwait. Mar 1-6, 2008. Abstract # P.61 (Invited Lecture).
31. Sultan T. Abu-Orabi , <i>Jordan's Necessity for Nuclear Power</i> , Frontiers of Chemical Sciences III: Research and Education in the Middle East, Istanbul, Turkey. Dec 8-13, 2007. Abstract # 1(Oral Presentation).
32. Sultan T. Abu-Orabi , <i>Utilization of 1,3- Dipolar Cycloaddition Reaction of Azides Toward the Synthesis of 5-Membered Heterocyclic Compounds</i> , 3 rd International Meeting on Molecular Chemistry and Development, Marrakesh, Morocco. Nov 22-24, 2007. Abstract # C6 (Plenary Lecture).
33. Sultan T. Abu-Orabi , 12 th Asian Chemical Congress (12 ACC), <i>1,3-Dipolar Cycloaddition Reactions in Synthesis of Heterocyclic Compounds</i> , Kuala Lumpur, Malaysia. Aug 23-25, 2007. Abstract # ORC 014 (Oral Presentation).
34. Sultan T. Abu-Orabi , Nuha A. Abu-Naaj and Sami Klaib, <i>Synthesis and Study of some 1,2,3- Triazolo-1,2,4- Triazole Derivatives:1,3- Dipolar Cycloaddition Reactions</i> , Petra International Chemistry Conference, Tafila, Jordan. Jun 25-28, 2007. Abstract # P0 25 (Poster).

35. Sultan T. Abu-Orabi , <i>Utilization of 1,3- Dipolar Cycloaddition Reactions in the Synthesis of Heterocyclic Compounds</i> , International Conference on Organic Chemistry, Ataturk University, Erzurum, Turkey. Jun 5-9, 2007. Abstract# IL-19 (Invited Lecture).
36. Sultan T. Abu-Orabi , <i>Utilization of 1,3- Dipolar Cycloaddition Reactions in the Synthesis of Heterocyclic Compounds</i> , The 10 th Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry, Luxor, Egypt. Feb 17-20, 2007. (Invited Lecture)
37. Sultan T. Abu-Orabi <i>1,3- Dipolar Cycloaddition Reactions in Synthesis of Heterocyclic Compounds</i> , The Second International Conference on Heterocyclic Chemistry, University of Rajasthan, Jaipur, India. Dec 16-19, 2006. Abstract # PL-4 (Plenary Lecture).
38. Sultan T. Abu-Orabi , <i>Utilization of 1,3- Dipolar Cycloaddition Reaction of Azides Toward the Synthesis of Heterocyclic Compounds</i> , Aristotle University of Thessaloniki, Greece. Aug 26-31, 2006. Abstract # IL-20 (Invited Lecture).
39. Sultan T. Abu-Orabi , <i>1,3-Dipolar Cycloaddition Reactions in Synthesis of Heterocyclic Compounds</i> , University of Aveiro ,(Portugal), 23-27, June, 2006, PL-9 (Plenary Lecture) .
40. Sultan T. Abu-Orabi , <i>Utilization of 1,3-Dipolar Cycloaddition Reactions in the Synthesis of Heterocyclic Compounds</i> , 2 nd International Symposium on Drug Discovery and Process Research, Belgaum, Karnataka, India. Feb 10-12, 2006. Abstract # 34 (Plenary Lecture).
41. Sultan T. Abu-Orabi , <i>Utilization of 1,3-Dipolar Cycloaddition Reaction of Organic Azides in the Synthesis of 5-Membered Ring Heterocyclic Compounds</i> , 11 th Asian Chemical congress, Korea University, Seoul, Korea. Aug 24-26, 2005. Abstract # G 10-1 (Invited Lecture).
42. Sultan T. Abu-Orabi and Nuha A. Abu-Naaj, <i>Synthesis of 3-[1-Substituted benzyl-1,2,3-Triazolo-4]-5-Alkylthio-4-Phenyl-1,2,4-Triazoles</i> , 9 th Ibn Sina International Conference On Pure and Applied Heterocyclic Chemistry, Sharm El-Sheikh, Egypt. Dec 11-14 2004. Abstract #Pos OA-2. (Invited Lecture)
43. Sultan T. Abu-Orabi and Nuha A. Abu-Naaj, <i>Synthesis and Characterization of New Substituted 1,2,3-Triazolo-1,3,4-Oxadiazoles</i> , The Second Arab Chemistry Conference, Amman, Jordan. Apr 21-23, 2004. Abstract #Pos.3.
44. Sultan T. Abu-Orabi and Nuha A. Abu-Naaj, <i>Synthesis of 3-[1-Substituted Benzyl -1,2,4-Triazoles</i> , The Second Arab Chemistry Conference, Amman, Jordan. Apr 21-23, 2004. Abstract #Pos.2.
45. Sultan T. Abu-Orabi , <i>Utilization of 1,3-Dipolar Cycloaddition Reactions of Azides in the Synthesis of Five-Membered Ring Heterocyclic Compounds</i> , The Second Arab Chemistry Conference, Amman, Jordan. Apr 21-23, 2004. Abstract #Pl.2, (Plenary Lecture).

46. Sultan T. Abu-Orabi , <i>Utilization of 1,3-Dipolar Cycloaddition Reactions of Azides in the Synthesis of Five-Membered Ring Heterocyclic Compounds</i> , Frontiers of Chemical Science: Research and Education in the Middle East, Malta. Dec 6-11, 2003. Abstract # 8, (Invited Lecture).
47. Sultan T. Abu-Orabi and Nuha A. Abu-Naaj, <i>Synthesis of 3-[1-Substituted Benzyl -1,2,3-Triazole-4]-5-Alkylthio-4-Phenyl-1,2,4-Triazoles</i> , The First Syrian French Chemistry Symposium, Homs, Syria, Nov 29-Dec 3, 2003. Abstract #18. (Invited Lecture)
48. Sultan T. Abu-Orabi and Nuha A Abu-Naaj, <i>Synthesis of 1-Substituted Benzyl-1,2,3-Triazole-4-Phenyl -5- Alkylthio -1,2,4-Triazoles</i> , The 12 th Arab Chemistry Conference and the 5 th Jordanian Chemistry Conference, Amman, Jordan. Oct 21-24, 2003. Abstract Or1 39, (Invited Lecture).
49. Sultan T. Abu-Orabi and Nuha A. Abu-Naaj, <i>Synthesis and Characterization of new Substituted 1,2,3-Triazole 1,3,4- Oxadiazoles</i> , The Fifth Portuguese Organic Chemistry Conference, Aveiro, Portugal. July 1-4, 2003. Abstract # PL4 (Plenary Lecture).
50. Sultan T. Abu-Orabi , <i>Utilization of 1,3-Dipolar Cycloaddition Reactions in The Synthesis of Heterocyclic Compounds</i> , Silver Jubilee Conference, Bangladesh Chemical Society, Dhaka, Bangladesh. Jan 11-13, 2003. Abstract # IL.3.11 (Invited Lecture).
51. Sultan T. Abu-Orabi and Nuha A. Abu-Naaj, <i>Synthesis of 3-[Substituted Benzyl-1,2,3-Triazole-4]-5-alkyl thio-4-phenyl-1,2,4-Triazoles Via 1,3-Dipolar Cycloaddition Reaction of Substituted Benzyl Azides</i> , The Third Jordanian International Conference of Chemistry, Irbid, Jordan. Apr 22-26, 2002. Abstract # PO-88.
52. Sultan T. Abu-Orabi , <i>Utilization of 1,3-Dipolar Cycloaddition Reactions in the Synthesis of Heterocyclic Chemistry</i> , The Third Jordanian International Conference of Chemistry, Irbid, Jordan. Apr 22-26, 2002. Abstract # OL-58, (Oral Presentation).
53. Beata Lopuszynska, Stanislaw Ostrowski and Sultan T. Abu-Orabi , <i>Selective Nitration of mes-Tetraaryl-Porphyrins in Two Neighbouring Aromatic Rings</i> , International Conference on Heterocyclic Chemistry, Jaipur, India. Dec 15-18, 2001. Abstract # PS-98.
54. Stanislaw Ostrowski, Natalia Petuh, Agnieszka Mikus and Sultan T. Abu-Orabi , <i>Vicarious Nucleophilic Substitution of Hydrogen in 5-(4-Nitrophenyl)-10, 15, 20-Triphenylporphyrin</i> , International Conference on Heterocyclic Chemistry, Jaipur, India. Dec 15-18, 2001. Abstract # OL-2.
55. Sultan T. Abu-Orabi , <i>Utilization of 1,3-Dipolar Cycloaddition Reactions of Azides in the Synthesis of Heterocyclic Compounds</i> , International Conference on Heterocyclic Chemistry, Jaipur, India. Dec 15-18, 2001. Abstract # PL-11, (Plenary Lecture).
56. Sultan T. Abu-Orabi , Raad Al-Hamdany and Maysaa M. Saleh, <i>1,3-Dipolar Cycloaddition Reactions of Substituted Benzyl Azides with Benzoquinones</i> , The First Arab Chemistry Conference, Applied Science University, Jordan. Oct 31-Nov 2, 2001. Abstract # Or1 16 (Invited Lecture).

57. Raad Al-Hamdany, Sultan T. Abu-Orabi and M. Al-Dhon, <i>Uses of Methyl-o-Formylbenzoate as a Synthone in the Synthesis of Phthalimidine Derivatives</i> , The First Arab Chemistry Conference, Applied Science University, Jordan. Oct 31-Nov 2, 2001. Abstract # Or1 15 (Invited Lecture).
58. Sultan T. Abu-Orabi , R. I. Al-Hamdany and M. M. Saleh, <i>1,3-Dipolar Cycloaddition Reactions of Substituted Benzyl Azides with Benzoquinones</i> , The First Scientific Day, Faculty of Arts and Sciences, Al al-Bayt University, Jordan. May 8, 2001. Abstract # 15 (Invited Lecture).
59. Sultan T. Abu-Orabi , <i>Synthesis of 1,2,3-Triazole and Isoxazole Derivatives Via 1,3-Dipolar Cycloaddition Reaction</i> , The Second Scientific Conference-Fourth Scientific Day, Faculty of Arts and Sciences, Jordan University of Science and Technology, Jordan. Apr 15, 2001. Abstract #9 (Invited Lecture).
60. Sultan T. Abu-Orabi , <i>The Inhibition Factors of Scientific Research in the Arab Countries</i> , The First Arab Conference on the Systemic Approach in Teaching and Learning, Ain Shams University, Egypt. Feb 17-18, 2001. Abstract # 8 (Invited Lecture).
61. Sultan T. Abu-Orabi , <i>Synthesis of Substituted Benzyl-1H-1,2,3-Triazolo[4,5-d]Pyridazine-4,7-Diones</i> , 40 th Science Week, Latakia, Syria. Nov 4-9, 2000 (Invited Lecture).
62. Sultan T. Abu-Orabi , <i>Synthesis and Reactions of 1,2,3-Triazole Derivatives Via 1,3-Dipolar Cycloaddition Reaction of Substituted Benzyl Azides and their Reactions with Hydrazine</i> , 1 st Eurasian Conference of Heterocyclic in Organic and Combinatorial Chemistry, Suzdal, Russia. Sep 16-19, 2000 (Invited Lecture).
63. Sultan T. Abu-Orabi , <i>Synthesis and Reactions of 1,2,3-Triazole Derivatives Via 1,3-Dipolar Cycloaddition Reaction of Substituted Benzyl Azides and their Reactions with Hydrazine</i> , The First Conference, Third Science Day, Faculty of Sciences, Jordan University of Science and Technology, Jordan. May 23, 2000 (Invited Lecture).
64. Eman Ta'an, Hasan Tashtoush, Mahmoud Al-Talib and Sultan T. Abu-Orabi , <i>Synthesis and Spectroscopic Properties of 2-[1-Benzyl-1,2,3-Triazolo-4]-5-Aryl-1,3,4-Oxadiazoles</i> , 2 nd International Conference of Pure, Applied and Environmental Chemistry, Yarmouk University, Jordan. April 17-21, 2000. Abstract PS-29.
65. Shawqi Al-Majdalawi, Mahmoud Al-Talib, Hasan Tashtoush, and Sultan T. Abu-Orabi , <i>Synthesis of 4,5-Bis-[5-Aryl-1,3,4-Oxadiazol-2-yl]-1-Substituted Benzyl-1,2,3-Triazoles</i> , 2 nd International Conference of Pure, Applied and Environmental Chemistry, Yarmouk University, Jordan. Apr 17-21, 2000. Abstract PS-28.
66. Abdal-Aziz. M. Abuyamin, Hassan. A. Al-Salah and Sultan T. Abu-Orabi , <i>Synthesis and Properties of Novel Aromatic Polyamides Containing 1,2,3-Triazole Ring Structure</i> , 2 nd International Conference of Pure, Applied and Environmental Chemistry, Yarmouk University, Jordan. Apr 17-21, 2000. Abstract PS-21.

67. Fayez El Khatib, Sabri Mahmoud, Sultan T. Abu-Orabi and Max Koenig, <i>The Substituent Effect on the Ozonation Reaction of Iminophosphoranes</i> , 2 nd International Conference of Pure, Applied and Environmental Chemistry, Yarmouk University, Jordan. April 17-21, 2000. Abstract SL-53.
68. Sultan T. Abu-Orabi , Raad Al-Hamdany, Adnan Atfeh, and Khaled Abu-Shandi, <i>Facile and Convenient Synthesis of Triazolopyridazine Derivatives Via 1,3-Dipolar Cycloaddition Reaction of Organic Azides</i> , 2 nd International Conference of Pure, Applied and Environmental Chemistry, Yarmouk University, Jordan. Apr 17-21, 2000. Abstract SL-19.
69. Sultan T. Abu-Orabi and Khaled H. Abu-Shandi, <i>Synthesis and Reactions of 1,2,3-Triazole Derivatives Via 1,3-Dipolar Cycloaddition Reaction of Substituted Benzyl Azides and Their Reactions With Hydrazine</i> , 7 th Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry, Alexandria, Egypt. Mar 25-28, 2000 . Abstract 0-8. (Invited Lecture)
70. Sultan T. Abu-Orabi , <i>Photophysics and PhotoChemistry</i> , Second European-Mediterranean Conference on Application of Photobiology and Laser technologies in Medicine and Environment, Cairo, Egypt. February 13-16, 1998. Chairman of Session No. 4.
71. Sultan T. Abu-Orabi , Ibrahim Jibril and Loay Al-Momany, <i>Syntheses of Isoxazole and 2-Isoxazoline Derivatives and their Reactions with Hydrazine</i> , Third International Conference on Chemistry in Industry, Bahrain. Nov 18-20, 1996. Abstract 0-1. (Invited Lecture)
72. Sultan T. Abu-Orabi , Ibrahim Jibril, Amer Al-Sheikh Ali, Sulhi Shahateet, Khaled Abu-Shandy and M. Adnan Aftah, <i>1,3-Dipolar Cycloadditions of Substituted Benzyl Azides with Dibenzoylacetylene and trans-Dibenzoyl ethylene</i> , Thirty Fifth Science Week, Lataki, Syria. Nov 4-9, 1995. P.N. 42. (Oral Presentation)
73. Sultan T. Abu-Orabi and Loay Al-Momany, <i>Synthesis and Reactions of Isoxazole and Isoxazoline Derivatives Via 1,3-Dipolar Cycloaddition Reactions of Aromatic Nitrile Oxides and Their Reactions with Hydrazine</i> , 15 th International Congress of Heterocyclic Chemistry, Taipei, Taiwan. Aug 6-11, 1995. Abstract OP-1a-16.
74. Sultan T. Abu-Orabi and Salhi Jabarah, <i>1,3-Dipolar Cycloaddition Reaction of Aryl Azides with Substituted Ethylenic and Acetylenic Compounds</i> , 14 th International Congress of Heterocyclic Chemistry, Antwerp, Belgium. Aug 1-6, 1993. Abstract Op-SY-18.
75. Sultan T. Abu-Orabi , <i>The Effect of the Solvent on 1,3-Dipolar Cycloaddition Reaction of Substituted Benzyl Azides with Di-tert-Butyl Acetylene Dicarboxylate</i> , The First International Conference on Chemistry in Industry, Bahrain. Nov 14-16, 1992. Abstract p. W06.
76. Sultan T. Abu-Orabi , <i>Dipolar Cycloaddition Reactions of Bis (azidomethyl) benzenes with some Acetylenic Compounds</i> , The 15 th Iraqi Chemical Conference, Basrah, Iraq, Feb 3-7, 1990. Abstract 11-18.
77. Sultan T. Abu-Orabi , M. Adnan Aftah and Fakhri Marii, <i>Azides and their Dipolar Cycloaddition Reactions</i> , 197 th American Chemical Society, National Meeting, Dallas, Texas, USA. Apr 9-14, 1989. Abstract ORGN 269.

78. Sultan T. Abu-Orabi and Fakhri M. Marii, <i>1,3-Dipolar Cycloaddition Reactions of Azides with DiSubstituted Acetylenes</i> , Eighth Arab Chemical Conference, Amman, Jordan. Jun 20-23, 1988. Abstract P. 31.
79. Sultan T. Abu-Orabi , Ibrahim Jibril, Reham Obiedat and Lina Hatamleh, <i>Cycloaddition Reactions of 2,4,6-Trimethoxybenzotrile Oxide with Disubstituted Acetylenes and Ethylenes</i> , Third Chemical Congress of North America, Toronto, Canada, June 5-10, 1988 . Abstract ORGN 248.
80. Sultan T. Abu-Orabi , <i>Dipolar Cycloaddition Reactions of 2,4,6-Trimethoxybenzotrile Oxide with Disubstituted Acetylenes</i> , Asian Chemical Congress, 87 Seoul, Seoul, South Korea. June 29-Jul 3, 1987.
81. Sultan T. Abu-Orabi and Fakri Marii, <i>Reaction of Diemethyl-and Diethyl Acetylenedicarboxylate with Bis(azidomethyl)benzene</i> , 11 th International Congress of Heterocyclic Chemistry, Heidelberg, W. Germany, August 16-21, 1987 . Abstract P3.35.
82. Sultan T. Abu-Orabi and Peter Jutzi, <i>Synthesis , Structure and Fluxional Behaviour of Di-t-butylcyclopentadienyl Compounds of Group IV Elements</i> , Eighth International Symposium on Organosilicon Chemistry, St. Louis, Missouri , USA. Jun 7-12, 1987 . Abstract A 30.
83. Sultan T. Abu-Orabi and Nawash M. Al-Ghezawi , <i>1,3-Dipolar Cycloaddition of Nitrile Oxides with cis-and trans-Ethylenes Substituted</i> , 193 rd American Chemical Society, National Meeting, Denver, Colarado, USA. April 5-10, 1987 . Abstract ORGN 6.
84. Sultan T. Abu-Orabi , <i>Preparation of Polymethylene Bridged Triazoletropone</i> , Fourth Scientific Conference for the Scientific Research Council, Baghdad, Iraq. Oct 23-28, 1986. Vol. 2 Part 2 pp. 425-430.
85. Sultan T. Abu-Orabi , <i>Reaction of 1-Benzyl-1-H-Triazole-4,5-Dicarboxalate with Cyclic Ketones</i> , XII th European Colloquim on Heterocyclic Chemistry, University of Reims, France. Sep 29-Oct 1, 1986. Abstract P4.
86. Sultan T. Abu-Orabi , <i>Synthesis and Chemical Transformation of the Bromo-Substituted Arsabenzenes</i> , First International Symposium on the Chemistry and Applications of Bromine Compounds, University of Salford, England. Sep 18-19, 1986.
87. Sultan T. Abu-Orabi , <i>Application of Dipolar Cycloaddition Reaction Toward the Synthesis of Polyfunctionality Heterocycles</i> , 192 nd American Chemical Society, National Meeting, Anaheim, California, USA. Sep 7-12, 1986. Abstract ORGN 283.
88. A.A. Hunaiti and Sultan T. Abu-Orabi , <i>The Synthesis of some Organic Azides and their Effects on Purified Camel Glutathione S-Transferases</i> , 192 nd American Chemical Society, National Meeting, Anaheim, California, USA. Sept 7-12, 1986. Abstract ORGN 274.
89. Mustafa A. Abuirijeie , Abdelrahim A. Hunaiti and Sultan T. Abu-Orabi , <i>Physico-Chemical and Biological Properties of Irradiated Oxytetracycline- HCl</i> , 192 nd American Chemical Society, National Meeting, Anaheim, California , USA. Sep 7-12, 1986. Abstract MEDI 112.

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| 90. Sultan T. Abu-Orabi , <i>Preparation of Phenylene Bis (methylene) Bis (triazole-4,5-dicarboxaldehyde tetraethyl acetals)</i> , Fifteenth IUPAC International Symposium on the Chemistry of Natural Products, The Hague, Netherlands, Aug 17-22, 1986 . Abstract PA 148. |
| 91. Abdelrahim A. Hunaiti , Sultan T. Abu-Orabi , Mohammed A.A. Sarhan and Wajih M. Owais, <i>Interaction of Organic Azides with Purified Camel Glutathione S-Transferases</i> , Society for Free Radicals Third Biennial Meeting -An International Meeting on Free Radicals in Chemistry Biology and Medicine, University of Dusseldorf, West Germany Jul 20-23, 1986. Abstract 69. |
| 92. S.T. Abu-Orabi , and A.J. Ashe III, <i>Diels-Alder Reaction of Arsabenzene</i> , The 13 th Iraqi Chemical Conference, Iraqi Chemical Society, Irbil, Iraq. Mar21-26, 1986 . Abstract ORGN 13. |
| 93. R.E. Harmon and S.T. Abu-Orabi , <i>The Synthesis and Structure Elucidation of 5,7-Polymethylene Bridged 1-Alkyl-6-Cycloheptatriazolones</i> , 175 th American Chemical Society, National Meeting, Anaheim, California, USA. Mar 1979 . Abstract. ORGN 66. |

15.Lectures

1. <i>Utilization of 1,3-Dipolar Cycloaddition Reactions of Azides in the Synthesis of 5-Membered Ring Heterocyclic Compounds</i> , Chemnitz University of Technology, Germany. Sept.2, 2013
2. <i>Speaker within the XXV Anniversary of the Magna Charta Universitatum, Bologna, Italy.</i> Sept.19, 2013
3. <i>Utilization of 1,3-Dipolar Cycloaddition Reactions of Azides in the Synthesis of 5-Membered Ring Heterocyclic Compounds</i> , Siedlce University of Podlasie, Poland. Sept.16, 2013
4. <i>Higher Education & Scientific Research in the Arab World</i> , Brunei Dialogue conference, University of Brunei, June 3 rd 2013
5. <i>Introduction to the Arab-Euro Initiative on Higher Education</i> , University of BarceLona/Spain, May 30 th 2013
6. <i>Scientific Research and Higher Education in the Arab World</i> , Mo'ta University, Karak/Jordan, May 5 th 2013
7. <i>Scientific Research and Higher Education in the Arab World</i> , AlMansoura University, Egypt, April 20 th 2013
8. <i>Scientific Research and Higher Education in the OIC</i> , The 2 nd Muslim World Biz Exhibition and Conference, Kuala Lumpur, Malaysia. Jun 8-11, 2011.
9. <i>Scientific Research in the Middle East</i> , Humboldt Kolleg Conference on Science and Diplomacy, Amman, Jordan. Dec 2-4, 2010.
10. <i>Scientific Research and Future Plans at Yarmouk University</i> , Yarmouk University, Irbid, Jordan. Oct 24, 2010.
11. <i>Scientific Research in Jordan and the Arab World – Realities and Aspirations</i> , National Center for Human Rights, Amman, Jordan. Aug 7, 2010.
12. <i>Scientific Research in the Middle East</i> , International Conference on Materials, Amman, Jordan. Apr 9-11, 2010
13. <i>Synthesis and Study of Some Heterocyclic Compounds</i> , The IV th International Conference CBC-2010 on Modern Aspects of Chemistry of Heterocycles, Moscow State University, International Charitable Scientific Partnership Foundation, Russian Academy of Natural Sciences (RANS) and InterBioScreen, St. Petersburg, Russia. Aug 2-6, 2010.
14. <i>Scientific Research</i> , Workshop on Materials Science in Jordan, the Jordanian Club of Humboldt Fellows, Amman, Jordan. Apr 10-12, 2010.
15. <i>Utilization of 1,3-Dipolar Cycloaddition Reactions of Azides in the Synthesis of 5-Membered Ring Heterocyclic Compounds</i> , Aristotle University of Thessaloniki, Thessaloniki, Greece. Mar 30, 2010
16. <i>Scientific Research in the Arab World</i> , Seventh International Scientific Conference on Environment, Development, and Nanotechnology (ISCAZ 2010), Al-Azhar University, Cairo, Egypt. Mar 22-24, 2010.
17. <i>Scientific Research in the Arab World: Where to?</i> Jordanian Society for Science and Culture, Jordan. Mar 14, 2010

18. <i>Required Attributes in the Output of Secondary Education from the Viewpoint of Universities</i> , Dubai, UAE. Feb 23-25, 2010
19. <i>Scientific Research in the Arab World: Present and Future</i> , The Third Arab Conference of Arab Universities – Challenges and Horizons, Sharm el Sheikh, Egypt, Jan 9-11, 2010.
20. <i>Scientific Research in the Middle East: Present and Future</i> , International Symposium on Science and Higher Education in the Middle East: Present and Future, Yeditepe University, Istanbul, Turkey. Dec 17-18, 2009. (Invited Lecture).
21. <i>Research in Jordan and the Middle East – Present and Future</i> , Yarmouk University, Jordan. Nov 17, 2009.
22. <i>Research in Jordan and the Middle East – Present and Future</i> , Association of Faculty Members, Jordan University of Science and Technology (JUST), Jordan. Oct 13, 2009.
23. <i>Research in Jordan and the Middle East – Present and Future</i> , Abdul Hameed Shoman Foundation, Jordan. Oct 5, 2009.
24. <i>Higher Education in Jordan: in the Past and Present</i> , University of Karachi, Pakistan. Nov 26, 2008.
25. <i>Utilization of 1,3- Dipolar Cycloaddition Reactions of Azides Towards the Synthesis of 5-Member Heterocyclic Compounds</i> , University of Karachi, Pakistan. Nov 24, 2008.
26. <i>Utilization of 1,3- Dipolar Cycloaddition Reactions of Azides Towards the Synthesis of 5-Member Heterocyclic Compounds</i> , Martin-Luther University, Halle, Germany. Apr 30, 2008.
27. <i>Higher Education in Jordan: in the Past and Present</i> , Martin-Luther University, Halle, Germany. Apr 29, 2008
28. <i>1,3- Dipolar Cycloaddition Reactions of Azides Towards the Synthesis of 5- Membered Heterocyclic Compounds</i> , University of Alicante, Spain. Feb 1, 2008.
29. <i>Utilization of 1,3- Dipolar Cycloaddition Reactions of Azides Towards the Synthesis of 5-Membered Heterocyclic Compounds</i> , University of Madrid, Autonoma, Spain. Jan 28, 2008.
30. <i>Utilization of 1,3- Dipolar Cycloaddition Reactions of Azides Towards the Synthesis of 5-Membered Heterocyclic Compounds</i> , National University of Malaysia, Malaysia. Jan 16, 2008.
31. <i>Higher Education in Jordan, in the past and Present</i> , Columbia College, Chicago, USA. Mar 22, 2007.
32. <i>Higher Education in Jordan, in the Past and Present</i> , Northern Illinois University, DeKalb, USA. Mar 15, 2007.
33. <i>Higher Education in Jordan - Past and Present</i> , Bridgewater State College, Boston, USA. Mar 12, 2007.
34. <i>Higher Education in Jordan - the Past and Present</i> , University of Oklahoma, Norman, USA. Mar 7, 2007.
35. <i>Utilization of 1,3-Dipolar Cycloaddition Reactions of Azides in the Synthesis of Five-Membered Ring Heterocyclic Compounds</i> , University of Michigan, Ann Arbor, USA. Mar 12, 2007.
36. <i>Utilization of 1,3-Dipolar Cycloaddition Reactions of Azides in the Synthesis of 5-Membered Ring Heterocyclic Compounds</i> , Fourth Transmediterranean Colloquium on Heterocyclic Chemistry, University of Aveiro, Aveiro, Portugal. Jun 23-27, 2006
37. <i>Higher Education in Jordan</i> , Western Michigan University, Kalamazoo, U.S.A. Nov 16, 2004.

38. "Utilization of 1,3-Dipolar Cycloaddition Reactions of Azides in the Synthesis of Five-Membered Ring Heterocyclic Compounds", Western Michigan University (Kalamazoo, U.S.A). Nov 15, 2004
39. "Utilization of 1,3-Dipolar Cycloaddition Reactions of Azides in the Synthesis of Heterocyclic Compounds, Jordan University of Science and Technology (Jordan). Mar 17, 2004
40. <i>Utilization of 1,3-Dipolar Cycloaddition Reactions of Azides in the Synthesis of Five-Member Ring Heterocyclic Compounds</i> , Al-Hashemite University, Amman, Jordan. Dec 18, 2003.
41. <i>Utilization of 1,3-Dipolar Cycloaddition Reaction in the Synthesis of Heterocyclic Chemistry</i> , Alexandria University, Egypt. Apr 7, 2003.
42. <i>1,3-Dipolar Cycloaddition Reactions of Substituted Benzyl Azides with Benzoquinones</i> , Al-Baath University, Syria. Jun 20, 2001.
43. <i>Synthesis and Study of 1,2,3-Triazole Derivatives</i> , Al-Baath University, Syria. Jun 18, 2001.
44. <i>Organic Synthesis of Five-Membered Ring Heterocyclic Compounds Containing Nitrogen Via 1,3-Dipolar Cycloaddition Reactions</i> , King Fahd University of Petroleum and Minerals, Saudi Arabia. Nov 23, 1997.
45. <i>Organic Synthesis of Five-Membered Ring Heterocyclic Compounds Containing Nitrogen</i> , the Saudi Arabian International Chemical Sciences Chapter of American Chemical Society, Bahrain. Nov 13, 1997.
46. <i>Synthesis of Triazoles and their Cyclization Reactions</i> , King Fahd University of Petroleum and Minerals, Saudi Arabia. Oct 20, 1996.
47. <i>1,3-Dipolar Cycloaddition Reactions of Azides</i> , Al al-Bayt University, Jordan. May 20, 1995.
48. <i>Synthesis and Reactions of 1,2,3-Triazole Compounds</i> , Mutah University, Jordan. Nov 1, 1994.
49. <i>1,3-Dipolar Cycloaddition Reactions of Organic Azides with Acetylenic Compounds - Synthesis of 1,2,3-Triazole Compounds</i> , Al al-Bayt University, Jordan. May 19, 1996.
50. <i>Synthesis and Reactions of 1,2,3-triazoles</i> , Mutah University (Jordan). Nov 1, 1994.
51. <i>Arsabenzene is Analogue to Benzene</i> , King Fahd University of Petroleum and Minerals, Saudi Arabia. Apr 27, 1993.
52. <i>1,3-Dipolar Cycloaddition Reactions of Azides and Nitrile Oxides</i> , King Saud University, Riyadh, Saudi Arabia. May 12, 1992.
53. <i>Synthesis, Structure and Fluxional Behavior of di-t-butyl Cyclopentadienyl Compounds of Groups IV and V Elements</i> , the Saudi Arabian Interest Group of the American Chemical Society, Dhahran, Saudi Arabia. Jan 19, 1992.
54. <i>Synthesis, Structure and Fluxional Behavior of di-t-butylcyclopentadienyl Compounds of Groups IV and Elements</i> , King Fahd University of Petroleum and Minerals, Saudi Arabia. Nov 24, 1991.
55. <i>1,3-Dipolar Cycloaddition Reactions of Azides and Nitrile Oxides</i> , King Fahd University of Petroleum and Minerals, Saudi Arabia. Nov 27, 1990.
56. <i>1,3-Dipolar Cycloaddition Reactions of Aromatic Azides with Acetylenic Compounds</i> , Yarmouk University, Jordan. Dec 22, 1988.
57. <i>Environment and Pollution</i> , Yarmouk University, Jordan. Oct 9, 1988.

58. <i>Synthesis, Structure and Fluxional Behavior of di-t-butyl cyclopentadienyl Compounds of Groups IV and V Elements</i> , University of Jordan, Jordan. Feb 12, 1988.
59. <i>Fluxional Behaviour of main group Elements</i> , Yarmouk University, Jordan. Oct 18, 1987.
60. <i>Fluxional Behaviour of main group Elements</i> , Salford University, England. Jul 12, 1987.
61. <i>Preparation of Arsabenzene and Derivatives</i> , Universität of Beilefeld, Germany. Jul 6, 1984.
62. <i>Preparation of Derivatives of Arsabenzenes</i> , University of Jordan, Jordan. Feb 26, 1983.
63. <i>The preparation of 4-Substituted Arsabenzenes</i> , Yarmouk University, Jordan. Nov 24, 1982.

16. List of Publications

1.
2. Thanaa Shriteh, Sultan T. Abu-Orabi , Adnan Atfah and Rushdi Madwar, <i>Synthesis of EnaminoKetones Via Reaction of Benzyl Azides with Unsaturated Ketones</i> , Al-Baath University Journal for Basic Sciences. In Press.
3. Mahmoud Al-Qudah, Riyadh Muhaidat, Ahmed A. Alomary, Emad H. Malkawi, Hala Al-Jaber, Ibrahim N. Trawenh, Musa H. Abu Zarga and Sultan T. Abu Orabi , <i>Investigating the chemical Composition and the antimicrobial activity of the essential oil and Crude Extracts of Sedum Microcarpum (Sm.) schönl Growing Wild in Jordan</i> , Pharmacognosy Journal [Phcog J], 4 (33), 01-06 (2012).
4. Mahmoud A. Al-Qudaha, Riyadh Muhaidatb, Ibrahim N. Trawenhc, Hala I. Al Jaber, Mousa H. Abu Zarga and Sultan T. Abu Orabi , <i>Volatile Constituents of Leaves and Bulbs of Gynandris Sisyinchium and their Antimicrobial Activities</i> , Jordan Journal of Chemistry, 7(3), 287-295 (2012).
5. Sultan T. Abu-Orabi , <i>Scientific Research and Higher Education in the Arab and Islamic World</i> , Proceeding of the second International Conference on Islam and Higher Education: The Empowerment of Muslim Communities in Private Higher Education, Kuantan-Pahang, Malaysia, pp. 22-44.
6. Thanaa Shriteh, Sultan T. Abu-Orabi , Rushdi Madwar, Adnan Atfeh and Abed al hakim Badawi, <i>1,3-Dipolar Cycloaddition Reaction of Benzyl Azide with Cyclohex-2-en-1-one. Experimental and Computational Study</i> , Jordan Journal of Chemistry, 6(3), 257-269 (2011).
7. Thanaa Shriteh, Adnan Kodlaa, Sultan T. Abu-Orabi , Rushdi Madwar and Adnan Atfeh, <i>Ab Initio Calculation and Spectroscopic Study of the 1,3-Dipolar Cycloaddition Reaction of Benzyl Azide and Acrylic Acid</i> , Jordan Journal of Chemistry, 6(1), 81-89, 2011.
8. Raid J. Abdel-Jalil, Marwa Aqarbeh, Dirk Löffler, Bin Shen, Sultan Abu-Orabi , Wolfgang Voelter, Hans-Jürgen Machulla, <i>Synthesis and radiolabeling of new N-[(4-[18F]Fluorobenzylidene)aminoody) alkyl]-2-nitroimidazoles as possible hypoxia imaging pharamaceuticals</i> , Journal of Radioanalytical and Nuclear Chemistry, 283, (1), pp. 239-243 (2010).

9. Mahmoud A. Al-Qudah, Hala I. Al-Jaber, Abdulraouf S. Mayyas, Sultan T. Abu-Orabi and Musa H. Abu Zarga, "Chemical Compositions of the Essential Oil from the Jordanian Medicinal Plant <i>Dittrichia Viscosa</i> " <i>Jordan Journal of Chemistry</i> , 5 (4), 343-348 (2010).
10. Sultan T. Abu-Orabi , Nuha A. Abu-Naaj, and Lo'ay Al-Momani, <i>Synthesis, Study and Characterization of some 1,2,3-Triazolo-1,3,4-oxadiazole Derivatives via Dehydration Reactions of Carbohydrazides</i> . <i>Jordan Journal of Chemistry</i> , 5 (4), 325-330 (2010).
11. Sultan T. Abu-Orabi , <i>Scientific Research in the Arab World: Present and Future</i> , Proceedings of The Third Arab Conference of Arab Universities – Challenges and Horizons, Sharm el Sheikh, Egypt, pp.39-43, 2010.
12. Sultan T. Abu-Orabi , Nuha A. Abu-Naaj, Sami Klaib, Loay Al-Momani and Ibrahim Jibril, <i>Synthesis of some 1,2,4- Triazolyl-1,2,3- Triazole Derivatives (1,3-Dipolar Cycloaddition Reaction)</i> , <i>Jordan Journal of Chemistry</i> , 3 , 337-347 (2008).
13. Sultan T. Abu-Orabi , Maysaa saleh , Loay Al-Momany, Ibrahim Jibril and Yaser Yousef, <i>Synthesis of Mono- and Bis-Triazoles Via 1,3-Dipolar cycloaddition Reactions of Azides Derivatives with Naphtho–and Benzoguinone</i> , <i>Jordan Journal of Chemistry</i> , 1 ,109-120 (2006).
14. Nizar Abu-Jaber, Sultan T. Abu-Orabi , Sameh Gharaibeh, Hanan Malkawi, Idrees Momani, Mohammed Qudah and Nigem Din Yousef, <i>Suitability of Agricultural Drainage Water at Safi for Potash Production</i> , <i>Abhath AL-Yarmouk, Basic Sciences and Engineering</i> , 12 , 585-602 (2003).
15. Chahid Moustapha, Sultan T. Abu-Orabi and Hatem Mghames, <i>Condensation Reaction between 5-Methyl-3- aminoisoxazole and Formalin</i> , <i>Damascus University Journal for Basic Sciences</i> , 19 , 77-92 (2003).
16. S. T. Abu-Orabi , <i>1,3-Dipolar Cycloaddition Reactions of Substituted Benzyl Azides with Acetylenic Compounds</i> , <i>Molecules, A Journal of Synthetic Chemistry and Natural Product Chemistry</i> , 7 , 302-314 (2002).
17. S. T. Abu-Orabi , Y. A. Yousef, I. Jibril and S. Shahateet, <i>1,3-Dipolar Cycloaddition Reactions of Substituted Benzyl Azides with trans-Dibenzoyl ethylene : Thermally Stable Triazoles Versus Unstable Triazolines</i> , <i>Abhath Al-Yarmouk, Basic Sciences and Engineering</i> , 10 , 257-271 (2001).
18. S. T. Abu-Orabi , R. Al-Hamdany, S. Shahateet and K. Abu-Shandi, <i>Synthesis of Substituted Benzyl-1H-1,2,3-Triazole [4,5-d] Pyridazine-4,7-Diones</i> , <i>Heterocyclic Communication</i> , 6 , 443-449 (2000).
19. S. T. Abu-Orabi , R. Al-Hamdany, L.A. Al-Momany and E.A. Ta'an, <i>Reactions of Isoxazoline and Isoxazole Derivatives with Hydrazine Hydrate</i> , <i>Asian J. Chem.</i> , 11 , 1276-1282 (1999).
20. S. T. Abu-Orabi , R. Al-Hamdany, A. Atfah, A. S. S. Ali and K. H. Abu-Shandi, <i>Facile and Convenient Synthesis of Triazolopyridazine Derivatives Via 1,3-Dipolar Cycloaddition Reaction of Organic Azides</i> , <i>Asian J. Chem.</i> , 11 , 774-783 (1999).
21. M. Al-Talib, S. Abu-Orabi , Sh. Al-Majdalawi and H. Tashtoush. <i>Synthesis and Spectroscopic Properties of 4,5-bis-[S-aryl-1,3,4-Oxadiazol-2-yl]-1- Substituted benzyl-1,2,3-triazoles</i> , <i>Indian Journal of Heterocyclic Chemistry</i> , 8 , 183-188 (1999).

22. H. Tashtoush, S. Abu-Orabi , Eman Ta'an and M. Al-Talib, <i>Synthesis and Spectroscopic Properties of 2-[1-benzyl-1,2,3-Triazolo-4]-5-aryl-1,3,4-Oxadiazoles</i> , Asian J. Chem., 11 , 441-449 (1999).
23. E.H. Licht, H.G. Alt, W. Milius and S.T. Abu-Orabi , <i>Reduction Reaction Of the Metallocene Complex (η^2-C₅H₄CMe₂C₉H₇)₂ZrCl₂</i> , J. Organomet. Chem., 560 , 69-75 (1998).
24. A.M.S. Abdennabi, A.I. Abdulhadi and S.T. Abu-Orabi , <i>Relationship Between the Molecular Structure and the Inhibition Performance of Triazole Compound using Electro Chemical Methods</i> , Anti-Corrosion Methods and Materials, 45 , 103-108 (1998).
25. S. T. Abu-Orabi , S.R. Salman, J.M. Gillam and J.C. Lindon, <i>Characterization of the Conformational and Tautomeric properties of Benzylamino Derivatives of 1,4-Diphenyl-2-butene-1,4-dione using NMR Spectroscopy</i> , Spectrochimico ACTA Part A, 53 , 1521-1525 (1997).
26. S. T. Abu-Orabi , I. Jibril and L.A. Al-Momany, <i>Synthesis of Isoxazole and 2-Isoxazoline Derivatives and Their Reactions with Hydrazine</i> , Proceedings of the Third International Conference on Chemistry in Industry, Bahrain, pp 264-273. (1996).
27. A.M.S. Abdennabi, A.I. Abdulhadi, S.T. Abu-Orabi and M. Saricimen, <i>The Inhibition Action of 1-Benzyl -1-H-4,5-Dibenzoyl-1,2,3-Triazole on Mild Steel in Hydrochloric Acid Media</i> , Corrosion Science, 38 ,1791-1800 (1996).
28. S. T. Abu-Orabi , <i>1,3-Dipolar Cycloaddition Reactions of Aromatic Nitrile Oxides with Disubstituted Acetylenes and Disubstituted Ethylenes</i> , Mutah Journal For Research and Studies, Natural and Applied Science Series, 10 , 79-87 (1995).
29. I. Jibril, S.T. Abu-Orabi and S. Klaib, <i>Synthesis of Tri-tert- Butylcyclopentadiene Via Grignard Reaction</i> , Abhath Al-Yarmouk, (Pure Science and Engineering Series), 4 , 137-142 (1995).
30. I. Jibril, S. T. Abu-Orabi , S.A. Kalib, L. Zsolnai and G. Huttner, <i>Reactions of Ring-Substituted Titanocene Dichlorides with Thiocyanate Ions. Synthesis of new S-bonded Thiocyanato Titanocene Complexes and Crystal Structure of (^tBu - C₅H₄)₂Ti(NCS)₂</i> , J. Organomet. Chem. 467 ,189-194 (1994).
31. I. Jibril, S. T. Abu-Orabi , S.A. Klaib, W. Imhof and G. Huttner, <i>Controlled Synthesis of (1,3-Bu₂^tC₅H₃)₂ TiCl₂ and (1,3- Bu₂^tC₅H₃)TiCl₃. X-Ray Molecular Structure and Reactions of(1,3-Bu₂^tC₅H₃)TiCl₃</i> . J. Organomet. Chem. 433 , 253-259 (1992).
32. S. T. Abu-Orabi , A.Atfah, I.Jibril, A.A.-S. Ali and F. Marii, <i>Effect of Solvent and Reaction Time on the Products of the 1,3-dipolar Cycloaddition of Substituted Benzyl Azides with Di-tert-Butyl Acetylenedicarboxylate</i> , Gazzetta Chimica Italiana, 122 , 29-33 (1992).
33. M.M. Al-Abdullah and S.T. Abu-Orabi , <i>Potentiostatic Polarization of Iron in Hydrochloric Acid containing some Substituted Triazoles</i> , Korrosion, 22 , 150-154 (1991).
34. S. T. Abu-Orabi , A. Atfah, I.Jibril, F. Marii and A.A.-S. Ali, <i>Dipolar Cycloaddition Reaction of Organic Bis-Azides with some Acetylenic Compounds</i> , Gazzetta Chimica Italiana, 121 , 397-400 (1991).

35. T.S. Khedaywi and S.T. Abu-Orabi , <i>Effect of Oil Shale Ash, Rubber Ash, Husk Ash and Polyethylene on Properties of Asphalt Cement</i> , J. of Petroleum Research 8 , 193-206 (1989).
36. Sultan T. Abu-Orabi and Arthur J. Ashe III, <i>Synthesis of 4-Substituted Arsabenzenes</i> , Journal of the University of Kuwait (Science), 16 , 269-279 (1989).
37. M.M. Al-Abdullah and S.T. Abu-Orabi , <i>Protective Effect of some Substituted Isoxazoles and Isoxazolines on the Dissolution of Iron in Hydrochloric Acid</i> , Korrosion 20 , 315-321 (1989).
38. Mahmoud A. El-Hinnawi , Mohammad Y. El-Khateeb , Ibrahim Jibril and Sultan T. Abu-Orabi , <i>Organometallic Sulfur Complexes IV Synthesis and Characterization of mono-and di-tert-butyl Substituted Cyclopentadienyl Iron Dicarboxyl Dimers and their η^2-thiocarboxylate derivatives</i> , J. of Synthesis and Reactivity in Inorganic and Metal-Organic Chemistry, 19 , 809-826 (1989).
39. Sultan T. Abu-Orabi , M. Adnan Aftah, Ibrahim Jibril, Fakri Marii and Amer Al-Sheikh Ali, <i>Dipolar cycloaddition Reactions of Organic Azides with some Acetylenic Compounds</i> , J. of Heterocyclic Chemistry, 26 , 1461-1468 (1989).
40. H.G. Alt , H.E. Engelhardt , R.D. Rogers and S. T. Abu-Orabi , <i>Photoinduzierte Umsetzungen der Complex (η^6-C₆H₃R₃)(CO)₃Cr(R = Me , Et) mit den Acetylenen C₂R₂' (R' = H, C₃H₇, C(OEt)₂H Die Molekulstruktur von (C₆H₃Me₃)(CO)Cr(μ-CO)[μ-C₂[C(OEt)₂H]₂] Cr(CO)₄</i> . J. Organomet. Chem. 378 , 33-43 (1989).
41. Bernd Wrackmeyer, Gudrun Guldner and Sultan T. Abu-Orabi , <i>Organoboration of 3-(Trimethylstannyl)-2-Propynyl-1-Ethers</i> , Tetrahedron, 45 , 1119-1130 (1989).
42. Sultan T. Abu-Orabi , Ibrahim Jibril , Reham Obiedat and Lina Hatamleh, <i>Reactions of 2,4,6-Trimethoxybenzotrile Oxide with Disubstituted Acetylenes</i> , J. Chem. Eng. Data, 33 , 540-541 (1988).
43. Sultan T. Abu-Orabi and Peter Jutzi, <i>Synthesis, Structure and Fluxional Behaviour of Di-t-butylcyclopentadienyl Compounds of Group 15 Elements</i> , J. Organomet. Chem., 347 , 307-311 (1988).
44. B. Wrackmeyer , K. Wagner and S. T. Abu-Orabi , <i>Zur Reaction Einiger C-Funktionell Substituierter Alkynylstannae mit Triethylboran and B-Alkyl-9-borabicyclo [3.3.1]-nonanen</i> , J. Organomet. Chem. 346 , 333-340 (1988).
45. Abdelrahim A. Hunaiti, Sultan T. Abu-Orabi , Mohammed A.A. Sarhan and Wajih M. Owais, <i>Interaction of Organic Azides with Purified Camel Glutathione S-Transferases</i> , Biochemical Medicine and Metabolic Biology 39 , 140-147 (1988).
46. Sultan T. Abu-Orabi and Arthur J. Ashe III , <i>Diels-Alder Reaction of Arsabenzene</i> , J. Of Iraqi Chemical Society, 12 , 117-135 (1987).
47. T.S. Khedaywi, S. T. Abu-Orabi and Z.B. Al-Rashdan, <i>Effect of Limestone Dust Collector Fines of Properties on Asphalt Cement</i> , J. of Petroleum Research, 6 , 53-62 (1987).
48. Bernd Wrackmeyer and Sultan T. Abu-Orabi , <i>E/Z-Isomerisierung Von 1-stannyl-2-boryl-1-alkane</i> , Chemische Berichte, 120 , 1603-1604 (1987).

49. Sultan T. Abu-Orabi and Nawash M. Al-Ghezawi, <i>1,3-Dipolar cycloaddition of Nitrile Oxides with Cis-and trans-ethylene Sustituted</i> , J. Chem. Eng. Data, 32 , 383-384 (1987) .
50. Sultan T. Abu-Orabi and Peter Jutzi, <i>Synthesis, Structure and the Fluxional Behavior of Di-t-butylcyclopentadienyl Compounds of Group IV Elements</i> , J. Organomet . Chem. 329 , 169-177 (1987).
51. Sultan T. Abu-Orabi , <i>Reaction of 1-Benzyl-1-H-Triazole-4,5- Dicarboxaldehyde with Cyclic Ketones</i> , J. Chem. Eng. Data, 32 , 130-131 (1987).
52. C. Bihlmayer , S. T. Abu-Orabi and B. Wrackmeyer, <i>Organobroation of Alkynylstannanes, Stannacyclopentadienes Via Organoboration of Diethynyldimethylstannane with B-Alkyl-9-Borabicyclo [3.3.1] nonanes</i> , J. Organomet. Chem., 332 , 25-32 (1987).
53. Peter Jutzi, Peter Galow, Sultan T. Abu-Orabi , Atta M. Arif, Alan H. Cowley and Nicholas C. Norman, <i>Icosahedra with Slipped Vertices. The Influence of Electron Donation on the Geometry of the Stannadecarborane</i> , Organometallics, 6 , 1024-1031 (1987).
54. Sultan T. Abu-Orabi , <i>Preparation of Polymethylene Bridged Triazoletrones</i> , Proceedings of the Fourth Scientific Conference of the Scientific Research Council, Baghdad, Iraq. pp. 425-430 (Oct 1986).
55. Sultan T. Abu-Orabi , <i>Application of Dipolar Cycloaddition Reaction Toward the Synthesis of Polyfunctionality Heterocycles</i> , J. Chem. Eng. Data 31 , 505-506 (1986).
56. Sultan T. Abu-Orabi and Robert E. Harmon. <i>Synthesis of 1,1'-Dibenzyl-5,5'-7,7'-bis (hexano) bis 6(H)-Cycloheptatriazolone. A Novel Heterocyclic Ring System</i> , J. Chem. Eng. Data, 31 , 504-505 (1986).
57. Sultan T. Abu-Orabi and Robert E. Harmon, <i>Reaction of Acetylene Dicarboxaldehyde Bis (diethyl acetal) with Bis (azidomethyl) benzene</i> , J. Chem. Eng. Data , 31 , 379-380 (1986).
58. Arthur J. Ashe III, William Butler, Joel C. Colburn and Sultan T. Abu-Orabi , <i>The Molecular and Crystal Structure of Pentacarbonyl (Phosphabenzene) Molybdenum (O)</i> , J. Organomet. Chem. 282 , 233-239 (1985).
59. Arthur J. Ashe III , Sultan T. Abu-Orabi , Odile Eisenstein and Harold F. Sanford, <i>6-Methyl-6-boraspino [2-5] octa-4,7-diene, a Boron Analogue of the phenonium ion</i> , J. Org. Chem. 48 , 901-903 (1983).
60. Arthur J. Ashe III and Sultan T. Abu-Orabi , <i>Preparation of 4-Substituted Arsabenzene</i> , J. Org. Chem. 48 , 767-770 (1983).

1. Book Reviews

1. <i>Inhabitation of Aluminium Corrosion</i> by Sylvia Judica, Dr.Mahmoud Alquda, Dept.of Chemistry, Yarmouk University, Irbid, Jordan. (2013)
2. <i>Chemical profile & antibacterial Activity of Crude Fractions,,</i> by Dr.Mahmoud Alquda, Yarmouk University, Irbid, Jordan. (2013).
3. <i>General Chemistry</i> by A. Al-Oweis, S. Al-Khwaiter, A. Al-Wasel and Al-Suhybani, King Saud University, Riyadh, Saudi Arabia, (1992).
4. <i>Mechanism of Inorganic and Organometallic Reactions</i> , Volume 5, edited by M.V. Twigg, J. Am. Chem. Soc. <u>111</u> , 3486 (1989).
5. <i>Organic Chemistry</i> , by Francis A. Carey. J. Am. Chem. Soc., <u>111</u> , 1945 (1989).
6. <i>High Energy Processes in Organometallic Chemistry</i> , ACS Symposium Series. No. 333 Edited by Kenneth S. Suslick, J. Am. Chem. Soc., <u>110</u> , 1323 (1988).
7. <i>Advances in Organometallic Chemistry</i> , Volume 26, edited by F.G.A. Stone and Robert West, J. Am. Chem. Soc. <u>109</u> , 7935 (1987).

2. References

1. Professor Arthur J. Ashe, III, The University of Michigan, Chemistry Dept. Ann Arbor, Michigan 48109 (U.S.A).
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6. Prof, Dr. Fayez Khasawneh, Ex-President, Yarmouk Univesity, (Irbid – Jordan).
7. Dr. Ahmed Yousif Ali-Mohamed, Vice President, Bahrain University (Bahrain).