

CURRICULUM VITAE



Name : Dr. MOUSA LAFI AL-SMADI / Associate Prof.

Date & place of birth: AJLOUN 03/03/1965

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Work

Dept. Of Applied Chemical
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Academic Qualifications:-

<u>School</u>	<u>Scientific degree/Field</u>	<u>Year</u>
Yarmouk University Irbid-Jordan	B. Sc/Chemistry	1983-1987
Mainz University Mainz-Germany	M. Sc /Organometallic Chem.	1987-1989
	Ph. D /Organic & Polymer Chem. (DAAD- scholarship)	1994-1998

Teaching and Administration Experience*:

1. From 1987 until 1989 working as part-timer research and teaching assistant / Dept. of Chemistry, Yarmouk University-Jordan.
2. 1989 until 1991 working as part-time research and teaching assistant / Dept. of Chemistry, Jordan University of Science and Technology-Jordan.
3. 1992 until 1994 working as full-time research and teaching assistant / Dept. of chemistry, Yarmouk University.
4. 13/2/1999 until 13/2/2000 Full-time Lecturer / Dept. of Applied Chemical Sciences at the Jordan University of Science and Technology.

5. 13/2/2000-5/5/2009 Assistant Professor / Dept. of Applied Chemical Sciences at the Jordan University of Science and Technology. until now working as
6. 2005-2007 worked as Assistant of the Dean of the Faculty of Science and Arts.
7. 2010-2011 worked as Associate Prof. / Department of Applied Chemical Science at Taibah University in Kingdom of Saudi Arabia. (Sabbatical Leave)
8. 5/5/2009 until now working as Associate Professor / Dept. of Applied Chemical Sciences at the Jordan University of Science and Technology.

*During this period I was involved in teaching various labs and courses in most fields of chemistry. This included labs and/or courses in the following areas:

- General Chemistry Courses: Chem.101, 103
- General Chemistry Labs: Chem. 105, 106 & 107
- Preparative Organic Chem. Course for Students from Saudi Arabia: Chem. 97
- Organic Chemistry Courses: Chem. 104, 211, 212, 217, 311
- Organic Chemistry Labs: Chem. 213, 214, 218 & 312
- Inorganic Chemistry Labs: Chem. 323
- Research and Seminar Course: Chem. 391
- Spectroscopic Identification of Organic Compounds Course: Chem. 310, 413, 416
- Polymer Chemistry Course: Chem. 471
- Special Topics in Polymer Chemistry: Chem. 473
- Industrial organic Chemistry: Chem. 451
- Industrial organic Chemistry Labs: Chem. 456
- Special topics in Organic Chemistry: Chem.473A&B&C (Chemistry of Heterocyclic Organic compounds).
- Lap. Research: Chem. 492
- Advanced Organic Chemistry: Chem. 711 & 712
- Advanced Heterocyclic Chemistry: Chem. 713
- Advanced Physical Organic Chemistry: Pharmacy. 724
- Pharmaceutical Organic Chemistry: Pharmacy. 721
- Seminar Course for Graduate students: Chem. 791
- A significant amount of lecturing was involved in all the laboratory courses that I taught especially the advanced ones. In most of those labs, a one –hour lecture preceded the start of the experiment to explain the theory of the experiment. Writing

quizzes and exams and grading them were also parts of the teaching requirements for the labs and courses that I taught.

Honors and Awards

1. I received a scholarship from the Jordanian Ministry of Education to get a Bachelor degree in Chemistry from the Yarmouk University in Jordan.
2. I received a teaching grant during the Master degree from the Yarmouk University.
3. I received a DAAD-scholarship from the German Government to get the Ph. D degree in organic and industrial chemistry from Johannes Gutenberg University in Mainz / Germany.
4. I received a short-term scholarship for three months from the Johannes Gutenberg University in Germany for research work.
5. The President of the Jordan University of Science and Technology has assigned me as the University candidate for a DFG-scholarship in Germany that is organized by the Jordan highest community of science and technology.
6. Assigned coordinator between our University and the "TRAMECH" research center in France.
7. Dean Assistant / Faculty of Science and Arts at Jordan University of Science and Technology.
8. Vice Dean / Deanship of Students Affairs at Jordan University of Science and Technology.
9. Director of the Office / King Abdullah II fund for Development

Publications

1. Organoruthenium Sulfur Complexes. Synthesis of $[(\mu-S_5)RuCp(CO)_2]_2$ and its reaction with acid chlorides. preparation of $RuCp(CO)_2SCOR$ and molecular structure of $RuCp(CO)_2SCO(2-O_2NC_6H_4)$, M. El-Hinnawi, Mousa Al-Smadi, F. Esmadi, I. Jibril, W. Imhof and G. Huttner, *J. Organomet. Chem.*, 377, 373-381 (1989).
2. Organoruthenium Selenium Complexes - Synthesis of $Ru_2(CO)_2(Cp)_2Se_3$ and its Reaction With Acid-Chlorides , F. Esmadi, Mousa Al-Smadi, *Synth. React. Inorg. Met.-Org. Chem.*, 24 (5), 715-722 (1994).
3. 1,2,3-Thiadiazole mit ungesättigten Seitenketten - Monomerbausteine für Photoresist-Materialien / 1,2,3-Thiadiazoles with Unsaturated Side Chains - Monomeric Building

- Blocks for Photoresists, N.Hanold,H.Kalbitz, Mousa Al-Smadi, H. Meier, Z. Naturforsch., 50b, 1121-1126 (1995).
4. Multiple 1,2,3-Thiadiazoles, Mousa Al-Smadi, N. Hanold, H. Meier, J.Heterocycl.Chem., 34, 605-611(1997).
 5. Multi-Arm 1,2,3-Thiadiazole Systems, Mousa Al-Smadi, H. Meier, Liebigs Ann.Chem., 2357-2361 (1997).
 6. Separation and Characterization of an Anthocyanin, Cyanidin-3-O- arabinosylglucoside from Petals of Flowers of Pheasant's Eye (*Adonis Aestivalis L.*), Mahmoud K. Hammouri, M. AL-Smadi, Mahmoud S. Bataineh, and Boxin Ou, International J. of Bio-Chromatogr., 6, 173-183 (2001).
 7. Spectrophotometric determination of ruthenium after extraction of Perruthenate with dimethyldistearylammonium chlorideA, S. Barakat and M. Al-Smadi, J. Saudi Chem. Soc., 5, (2), 151-156 (2001).
 8. New Many Fold 1,2,3-Selenadiazole Aromatic Derivatives, M. Al-Smadi, S. Ratrout, J. Heterocyclic Chem., 41, 887 (2004).
 9. New 1,2,3-Selenadiazole and 1,2,3-thiadiazole derivatives. M. Al-Smadi, S. Ratrout, Molecules, 9, 957-967 (2004).
 10. New dendrimers with multi arm 1,2,3-thiadiazoles as a nucleus, M. Al-Smadi, Asian Journal of Chemistry, 19, (3) 1783-1788 (2007).
 11. Synthesis of New Heterocycles containing more than one 1,2,3-Thia or Selenadiazole Rings, M. Al-Smadi, J. Heterocyclic Chem., 44, 915-918 (2007).
 12. Synthesis, Characterization and Antimicrobial Activity of New 1,2,3-Selenadiazoles, M. Al-Smadi, F. Al-Momani, Molecules, 13, 2740-2749 (2008).
 13. Synthesis, characterization and photocrosslinking of negative photoresist polymers, N. Abdullah, M. Al-Smadi. National Journal of Chemistry, 2008, 32, 648-665.
 14. Synthesis, Characterization and Reactions of Selected Multi-Chalcone Derivatives, M. Al-Smadi, Suhaib Mohammad, J. Heterocyclic Chem, 46, (2) 201-206 (2009).
 15. 1,2,3-Thiadiazoles with Unsaturated Side Chains; Synthesis, Polymerization and Photocross-linking, M. Al-Smadi, N. Hanold, H. Kalbitz and H. Meier, Synthesis, 15, 2539-2546 (2009).
 16. Ruthenium complexes of 4,4'-bi-1,2,3-thiadiazole and azoimine ligands: syntheses, crystallography, and electrochemical studies M.

- Al-Noaimi, M. Al-Smadi, S. F. Haddad, S. Al-Omari, A. Haniyeh and A. M. Rawashdeh, *Transition Met Chem*, 36, 409-416 (2011).
17. Chemical Composition and Antimicrobial Activity of the Essential Oil from *Sinapis alba* L. and *Sinapis arvensis* L. (Brassicaceae) growing wild in Jordan, M. A Al-Qudah¹, H. I Al-Jaber, R. Muhaidat, E. I Hussein, A. Al Abdel Hamid, M. Al-Smadi, I. F Abaza, F. U Afifi, S. T Abu-Orabi, *Research Journal of Pharm, Biolog and Chem Sciences*, 2, (4) 1136-44 (2011).
 18. GABA metabolism and ROS induction in lentil (*Lens culinaris* Medik) plants by synthetic 1,2,3-Thiadiazole compounds, N. A. AL-Quraan, M. L. Al-Smadi & A. F. Swaleh, *Journal of Plant Interactions*, 10, (1) 185-194 (2015).
 19. Synthesis, antimicrobial and in vitro antitumor activities of a series of 1,2,3-thiadiazole and 1,2,3-selenadiazole derivatives, N. Mhaidat, M. Al-Smadi, F. Al-Momani, K. Alzoubi, I. Mansi and Q. Al-Balas, *Drug Design, Development and Therapy*, 9, 3645-52 (2015).
 20. Synthesis and Bioassay of Novel Substituted Pyrano[2,3-f]cinnoline-2-ones, A. S. Al-zagameem, M. M. El-Abadelah, M. A. Zihlif, R. G. Naffa, M. L. Al-Smadi and M. S. Mubarak, *J. Heterocyclic Chem.*, 53, 1771 (2016).
 21. Study of the antibacterial and antifungal activities of synthetic benzyl bromides, ketones, and corresponding chalcone derivatives, M. Shakhathreh, M. Al-Smadi, O. Khabour, F. AShuaibu, E. Hussein, K. Alzoubi, *Drug Design, Development and Therapy*, 10, 3653 -3660 (2016).
 22. Thermogravimetric and Composition Analysis of Oil Shale: Case Study: Wadi Ash Shallala, Jordan, N. Al-Ananzeh, M. Al-Smadi, A. Dawagreh, *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, (2016). (Accepted)
 23. Synthesis and Reactivity of New Mixed Heterocycles containing 1,2,3-Selena- or 1,2,3-Thiadiazole rings. Under Construction.
 24. Synthesis, Characterization and genotoxicity assessment of two heterocyclic compounds containing 1,2,3-Selena- or 1,2,3-Thiadiazole rings. Under Construction.

Posters Presented at Conferences

- 1) Multi-arm 1,2,3-Thiadiazole systems : 2nd international conference of pure, applied and environmental chemistry (Yarmouk University, Irbid-Jordan, Chair of a session with Dr. Yaser El-Hajj.), April 17-21, 2000.
- 2) Polymers Photo resist Materials:

- The Second Scientific Day of the Faculty of Science and Arts /
Jordan University of Science & Technology
- 3) Dendrimers with 1,2,3-Thiadiazoles as a nucleus- Synthesis and Photochemistry : 2nd Transmediterranean Colloquium on Heterocyclic Chemistry-TRAMECH 2002 (Bari-Italy), June 20-24, 2002.
 - 4) New Dendrimers with multi arm 1,2,3-Thiadiazole benzene derivatives core : IDS-3, International Dendrimer Symposium (Berlin-Germany), September 17-20, 2003.
 - 5) Synthesis, characterization, reactions and photochemical reactions of mono- and di-1,2,3-Thiadiazole heterocyclic rings:
The 9th Scientific Day of the Faculty of Science and Arts /
Jordan University of Science & Technology.
 - 6) Synthesis, Characterization and Reactions of new multi-arm chalcone aromatic derivatives: 4th Euroasian Meeting on Heterocyclic Chemistry (Thessaloniki-Greece), August 27-31, 2006
 - 7) Synthesis, Characterization and Antimicrobial Activity of some new 1,2,3-Selenadiazole derivatives and related compounds: 5th Euroasian Meeting on Heterocyclic Chemistry (Kuwait), March 1-6, 2008.
 - 8) Synthesis, characterization and photocrosslinking of negative photoresist polymers containing 1,2,3-thia or 1,2,3-Selenadiazole rings: 3rd European Symposium of Photopolymer Science-Vienna, September 9-12, 2014.

Seminars

- 1) Negative Photo resist Polymers containing 1,2,3-Thiadiazoles in their side chains : The Third Scientific Day of the Faculty of Science and Arts /Jordan University of Science & Technology
- 2) Dendrimers with Anthracene as a nucleus:
The Fourth Scientific Day of the Faculty of Science and Arts /
Jordan University of Science & Technology.
- 3) شاركت بالمؤتمر الذي خصص لتشجيع الدراسات العليا في أوروبا و الذي عقد في جامعة اليرموك خلال شهر أيار 2000 بمشاركة سفارات بلدان الاتحاد الأوروبي وذلك بالتنسيق من الدكتور رئيس جامعة العلوم و التكنولوجيا الأردنية
- 4) Stilbene a Core Synthone for Dendrimers:
The Fifth Scientific Day of the Faculty of Science and Arts /
Jordan University of Science & Technology.
- 5) New many fold 1,2,3-Selenadiazole Aromatic Derivatives :
ICNPAS-2004, 2nd International Conference on Natural Products and EAHM-2004, 3rd Euro Asian Heterocyclic Meeting (Novosibirsk-Russia), September 12-17, 2004.
- 6) Synthesis, characterization, reactions and biological activity of

- 1,2,3-Selenadiazoles aromatic derivatives:
The 8th Scientific Day of the Faculty of Science and Arts /
Jordan University of Science & Technology.
- 7) Synthesis, characterization, reactions and biological activity of 1,2,3-Selenadiazoles aromatic derivatives: The 6th Jordanian chemistry conference supervised by the Jordanian chemical society and presented at the Hashemite university, Jordan, 2006.
 - 8) Utilization of Multi-Arm Aromatic Ketones as Precursors for the Synthesis of Heterocyclic Compounds: 10th IBN SINA Conference on Heterocyclic Chemistry-2007, (Luxor-Egypt), February 17-20, 2007.
 - 9) Five-membered Heterocycles: Pyrazoline, Pyrazole, 1,2,3-Selenadiazole and 1,2,3-Thiadiazole multi-arm aromatic compounds syntheses, reactions and applications: The 9th Jordanian chemical conference supervised by the Jordanian chemical society and presented at the Hashemite university, Jordan, April 28th, 2009.
 - 10) Synthesis, Characterization, Reactions and Biological Activity of 1,2,3-Selenadiazole Aromatic Derivatives: The 10th Jordanian chemical conference supervised by the Jordanian chemical society and presented at the Jordan University of Science and Technology, Jordan, May 20th, 2010.
 - 11) محاضرة عن مصادر تلوث البيئة و طرق معالجتها في مديرية تربية محافظة عجلون – مدرسة بنات عنجرة الاساسية بتاريخ 2010/5/20
 - 12) 1,2,3-Selenadiazoles with Unsaturated Side Chains; Synthesis, Polymerization and Photocross-linking: 6th Euroasian Meeting on Heterocyclic Chemistry (Alicante-Spain), 30th June -4th July, 2010.
 - 13) 1,2,3-Thiadiazoles with Unsaturated Side Chains; Synthesis, Polymerization and Photocross-linking: 11th Euroasian Conference on Chemical Sciences (Dead Sea-Jordan), 6th -10th October, 2010.
 - 14) محاضرة عن الصحة و البيئة (المسكن الصحي) في مديرية تربية محافظة عجلون – مدرسة كفرنجة الثانوية الشاملة للبنات/ المؤتمر البيئي الثاني بتاريخ 2011/4/27
 - 15) Synthesis, Characterization, Complexation and Anti-microbial Activity of New 1,2,3-Thia- or Selenadiazole Derivatives and Related Compounds: The 7th international chemistry conference presented at the Yarmouk University, Jordan, April 19th - 21st 2016. Chair of a session with Dr. Yaser El-Hajj.

Scientific Workshops

1- شاركت في الورشة العامة لتكنولوجيا التعليم و التقويم (القياس والتقويم) في حرم جامعة العلوم

- و التكنولوجيا الأردنية.
- 2- شاركت في الورشة المتقدمة لتكنولوجيا التعليم (تطبيقات الحاسوب) في حرم جامعة العلوم و التكنولوجيا الأردنية.
- 3- شاركت في فعاليات الاسبوع العلمي الاردني العاشر للمجلس الاعلى للعلوم والتكنولوجيا بعنوان: أفاق تكنولوجيا المواد المتقدمة ودورها في الاقتصاد الاردني (في المركز الثقافي الملكي-عمان), 19-21 ايلول, 2004.
- 4- قمت بإعداد وادارة والقاء المحاضرات على ورشة علمية حول احتياطات الامان والسلامة العامة في المختبرات التدريسية لقيمي المختبرات في مدارس محافظة عجلون وذلك بدعوة من مدير تربية المحافظة.
- 5- شاركت في ورشة تدريبية بعنوان "نظم ادارة الجودة الشاملة" عقدت في المركز الاستشاري بجامعة العلوم و التكنولوجيا الاردنية بتاريخ 2011/6/5 م.
- 6- شاركت في ورشة (استراتيجيات حديثه في طرائق التدريس) والتي عقدت في مركز التطوير الاكاديمي بحرم جامعة العلوم والتكنولوجيا الأردنية 17-18/9/2013
- 7- شاركت في ورشة (التعليم الالكتروني) والتي عقدت في مركز التطوير الاكاديمي بحرم جامعة العلوم والتكنولوجيا الأردنية 9-10/2/2014
- 8) I managed and presented a two days workshops at the Consultative Center for Science & Technology at Jordan University of Science & Technology about "Safety Rules inside the Teaching and Industrial Labs". February 1-2, 2006 & January 30-31, 2007.
- 9) I participated and completed the "Chemical Safety and Security Workshop" that is managed by the Sandia National Laboratories/USA and the US Department of State in the 13th of April 2009 at Jordan University of Science and Technology.

Membership

- 1) Member in Queen Rania Al-Abdullah center for Environmental Sciences & Technology at the Jordan University of Science and Technology.
- 2) Member in the Jordanian Chemical Society
- 3) Member in the Jordanian Environmental Society (Head of the Scientific committee/ Ajloun)
- 4) عضو في جمعية أعضاء هيئة التدريس/ نائب رئيس الجمعية للعامين 2013-2015

5) عضو في جمعية خريجي الجامعات الألمانية

شاركت مقرا أو عضوا في العديد من لجان الجامعة ولجان كلية العلوم والآداب بالإضافة

الى لجان قسم العلوم الكيميائية في جامعة العلوم و التكنولوجيا الأردنية مثل :

1- اللجنة الاجتماعية

2- لجنة المكتبات

3- لجنة السلامة العامة

4- لجنة الارشاد الاكاديمي

5- لجنة البحث العلمي

6- لجنة العبء التدريسي

7- لجنة التدريب الصيفي

8- لجنة العطاءات المركزية للجامعة

9- مقرا للجنة الاشراف على انتخابات ممثل قسم الكيمياء في اتحاد الطلبة لعدة دورات

10- لجنة امتحان الكفاءة لخريجي قسم الكيمياء للعام 2005/2004

11- لجنة اليوم العلمي لكلية العلوم و الآداب للعامين 2006/2005 و 2007/2006

12- لجنة الدراسات العليا

13- لجنة العطاءات للقسم

انتخبت بالتركية من قبل اعضاء مجلس قسم العلوم الكيميائية في جامعة العلوم والتكنولوجيا(5) كأمين سر للمجلس و لمدة عامين دراسيين متتاليين.

6) أخترت منسقا لتوزيع مراقبات امتحانات القسم الداخلية و لمدة عامين دراسيين متتاليين

7) أخترت عضوا في اللجنة التربوية لمحافظة عجلون عن المجتمع المحلي

8) أخترت مستشارا للنادي العلمي بعمادة شؤون الطلبة بجامعة العلوم والتكنولوجيا الاردنية

9) أخترت عضوا مؤسسا في جامعة عجلون الوطنية

10) أخترت منسقا و مشرفا عاما من قبل وزير التعليم العالي على امتحان الكفاءة الجامعي بجامعة العلوم والتكنولوجيا الاردنية لخريجي الفصليين الدراسيين الثاني والصيفي 2007/2006

11) عينت مساعدا لعميد كلية العلوم والآداب بجامعة العلوم والتكنولوجيا الاردنية خلال العامين الدراسيين 2006/2005 و 2007/2006

12) انتخبت بالتركية من اعضاء مجلس قسم العلوم الكيميائية في جامعة العلوم والتكنولوجيا كـممثل للقسم في مجلس كلية العلوم و الآداب للعام الدراسي 2011/2010

- 13) عينت نائبا لعميد شؤون الطلبة بجامعة العلوم والتكنولوجيا الاردنية لمدة عامين دراسيين متتاليين العام الدراسي 2014/2013 والعام الدراسي 2015/2014
- 14) كلفت مديرا لمكتب صندوق الملك عبد الله الثاني للتنمية والارشاد والتاهيل الوظيفي بالاضافة لتكليف نائبا لعميد شؤون الطلبة بجامعة العلوم والتكنولوجيا الاردنية لمدة عامين دراسيين متتاليين العام الدراسي 2014/2013 والعام الدراسي 2015/2014
- 15) بناء على تنسيب عطوفة رئيس الجامعة تم تكليفي من قبل معالي وزير التربية والتعليم كعضو في لجنة التوجيه والاشراف (ادارة المناهج والكتب المدرسية) على تاليف كتاب الكيمياء للصف الحادي عشر وذلك خلال العام 2014 وكتاب الكيمياء للصف العاشر خلال العام 2015 و كتاب الكيمياء للصف الثاني عشر خلال العام 2016
- 16) بناء على تنسيب عطوفة رئيس الجامعة كلفت من قبل مجموعة لومينوس وبرنامج التنافسيه الاردني كعضو في اللجنة التوجيهيه للتحضير والتدريب لتدريس مساق ريادة الاعمال لطلبة جامعة العلوم والتكنولوجيا الاردنية
- 17) بناء على تنسيب من رئيس قسم الكيمياء وعميد كلية العلوم كلفت من قبل معالي د. محمود الشياب / رئيس الجامعة بالاشراف على الرحلة العلمية (بمشاركة خمسة وأربعين طالبا) والتي تم خلالها زيارة شركة مصفاة البترول الاردنية يوم الاحد 2014/4/2

Proposals

- 1) Synthesis and cross linking of a new photo resist polymers
- 2) Synthesis, characterization and photo cross linking of negative photo resist polymers
- 3) Complexation Studies between Natural Anthocyanins and Trivalent Metal Ions
- 4) Synthesis, characterization and reactions of a new 1,2,3-selenadiazoles
- 5) Synthesis, characterization and Reactions of selected Multi-chalcone Derivatives
- 6) Synthesis and Reactivity of New Mixed Heterocycles containing 1,2,3-Selena- or 1,2,3-Thiadiazole rings
- 7) Synthesis, Characterization and genotoxicity assessment of two heterocyclic compounds containing 1,2,3-Selena- or 1,2,3-Thiadiazole rings
- 8) Physiological effects of various synthetic 1,2,3-Thiadiazole compounds on γ -Aminobutyric Acid Metabolism, Oxidative damage,

total protein and total carbohydrates contents in Jordan cultivated Lentil (*Lens culinaris* Medik) plants

- 9) Antitumour activity induced by several newly synthesized chemicals against human colorectal cancer
- 10) Synthesis, characterization, complexation of new multiple thiosemicarbazone derivatives and study of their biological activity.

Supervision and Exam. Committee

- 1) Advisor of the Master Student “Nadir Najem Abdullah” and Chairman of the Master exam. Committee. (Synthesis, Characterization and Photocrosslinking of Negative Photo resist Polymers). 2002 at JUST
- 2) Co-advisor of the Master student “Samar Fayez Al-masry” and member of the Master exam. Committee. (Separation and Characterization of Anthocyanin Derivatives From Pheasant,s Eye Plant By Chromatographic and Spectroscopic Techniques). 2002 at JUST
- 3) Member of the Master exam. Commity of the Master Student “Anas Salam Lataifeh”. (Novel Half Sandwich Iron S-bonded mono-, di- and tri-Thiocarbonate Complexes). 2003 at JUST
- 4) Advisor of the Master Student “Samer Sami Ratrouf” and Chairman of the Master exam. Committee. (Synthesis, Characterization and Reactions of 1,2,3-Selenadiazole Aromatic Derivatives). 2003 at JUST
- 5) Co-advisor of the Ph.D-student “Nabil Abed Abed Al-Rida” from Babylon University-Iraq. (1,3-Dipolar Cycloaddition Reaction Of Carbohydrate Azides With Carbohydrate Derivatives Containing Unsaturated Groups). 2006 at JUST
- 6) Advisor of the Master Student “Suhaib Mohammad Mohammad” and Chairman of the Master exam. Committee. (Synthesis, Characterization and Reactions of Selected Multi-Chalcone Derivatives). 2007 at JUST
- 7) Member of the Master exam. Committee of the Master Student “Yousef Mustafa Abul- Haija”. (Pectin-Co-(N-Vinylpyrrolidone) and (Pectin-Co-(N-Isopropylacrylamide) Hydrogel Copolymers for Sustained Drug Release; Syntheses and Control). 2009 at JUST

- 8) Member of the Master exam. Committee of the Master Student “Ashraf.N.Bani Mustafa”. (Synthesis, Characterization of Some Mixed Schiff-Base Complexes of Copper and Nickel). 2010 at Yarmouk University (Department of Chemistry)
- 9) Member of the Master exam. Committee of the Master Student “Rami Mahmoud Mohamed Najadat”. (Isolation, Characterization and Biological Evaluation of active compounds of Glaucium Aleppicum Boiss, ET Hausskn. EX Boiss.[Papaveraceae]). 2011 at JUST (Faculty of Pharmacy)
- 10) Member of the Master exam. Committee of the Master Student “Bilal Mohammad Rabah Hashlamoun”. (Incorporation of Amino Acids into Polysilsesquioxane and Polysiloxane System: Interfacial Interaction-Covalent Binding that leads to Polypeptide Formation). 2011 at JUST
- 11) Advisor of the Master Student “Reem Atef Ali Mansour” (Synthesis, Characterization and genotoxicity assessment of two heterocyclic compounds containing 1,2,3-Selena- or 1,2,3-Thiadiazole rings). 2011 at JUST
- 12) Advisor of the Master Student “Mohammed Mustafa Al-Smadi” (Synthesis, Characterization and complexation of some Hydrazones and their heterocyclic derivatives with some transition metals). 2011 at JUST
- 13) Member of the Master exam. Committee of the Master Student “Ahmed Ishaq Ghuniem”. (Characterization of Gaba Shunt Pathway under the influence of Chlorosulfuron Herbicide in Cultivated Lentil and Wheat in Jordan). 2013 at JUST (Department of Biology)
- 14) Co-advisor of the Master student “Aaya Fakhri Swaleh” and member of the Master exam. Committee. (Physiological Effects of Various Synthetic 1,2,3-Thiadiazole Compounds on γ -Aminobutyric Acid Metabolism, Oxidative Damage, Total Protein and Total Carbohydrates Contents in Jordan Cultivated Lentil (*Lens Culinaris Medik*) Plants). 2013 at JUST (Department of Biology)
- 15) Co-advisor of the Master student “Fatima Adamu Shuaibu” and member of the Master exam. Committee. (ANTIBACTERIAL AND ANTIFUNGAL ACTIVITIES OF SELECTED CHALCONE DERIVATIVES). 2014 at JUST

16) Advisor of the Master Student “Noor Bani-Hamad” (Synthesis, characterization, complexation of new multiple thiosemicarbazone derivatives and study of their biological activity. 2016 at JUST

Reviewer

- 1) Articles published in the following Journals:
 - Journal of Heterocyclic Chemistry
 - Journal “Phosphorous, Sulfur, and Silicon ”
 - Journal of Polymer Research
 - Journal “Letters in Drug Design & Discovery – Online”
 - Bulletin of the Chemical Society of Ethiopia
 - Pharmaceutical Biology
 - Research on Chemical Intermediates
 - Cogent Chemistry
 - Molecules
- 2) Proposals applied for “the Scientific Research Support Fund” in Jordan.
- 3) Scientific publications for the aim of promotion from Assistant to Associate prof.