



Dr Majed Hamad Shtaiwi

Email: majedshtaiwi@gmail.com

Zarqa – Jordan

- Assistant professor of Organic Chemistry- Chemistry Department- Faculty of Science- Hashemite University- Zarqa- Jordan.
- Assistant professor of Organic Chemistry – Faculty of Sciences and Arts in Khulais – King Abdulaziz University – KSA
- Head of the Quality and Academic Accreditation Unit - Faculty of Sciences and Arts in Khulais – King Abdulaziz University – KSA
- Member of the Planning Committee - Faculty of Sciences and Arts in Khulais – King Abdulaziz University – KSA
- Nationality: Jordanian/Australian

Education

- | | |
|--------------------|---|
| 1998 - 2002 | University of Queensland, Australia
PhD (Organic Chemistry), Thesis Title: Iminopropadienones, synthesis and reactions |
| 1993 - 1996 | University of Jordan, Amman, Jordan
MSc (Organic Chemistry), Thesis Title: Synthesis and Characterization of new Schiff bases and their Complexes with some Metal Ions. |
| 1988 – 1991 | University of Jordan, Amman, Jordan
Bachelor of Science (Chemistry) |

Employment History

- | | |
|------------------------|---|
| 2015 up to date | Assistant professor
Chemistry Department- Faculty of Science- Hashemite University- Zarqa- Jordan |
| 2010 – 2015 | Assistant Professor
Faculty of Sciences and Arts in Khulais - King Abdulaziz University - KSA |
| 2008 – 2010 | Assistant Professor
Al Zaytoonah Private University- Faculty of Pharmacy - Jordan |
| 2005-2008 | Project Manager
Specialized Pharma (STD)-Amman - Jordan |
| 2004-2005 | QC manager |
| 2003-2004 | Research Chemist
BioPharma - Australia |
| 2002 – 2003 | Synthetic Chemist
National Research Centre for Environmental Toxicology - QLD - Australia |
| 1992 – 1998 | Pharmaceutical Industrial Chemist
Jordan |

Visiting Academic Experience

09/2007 – 01/2008

Visiting Academic
Jordan University- Faculty of Pharmacy - Jordan

Industrial Experience

Quality Services: a thorough experience in providing assistance in achieving excellence through cGMP compliance services such as:

- Quality Management Systems (GMP Implementation).
- Preparing for Audits (internal and external audit).
- Facility design and layout according to cGMP.
- Aid in preparing qualification protocols for Instruments/Machines/Utilities.
- Manufacturing site evaluation and Gap analysis reports.
- Documentation: e.g. SOPs, site master file, Quality Manual.
- Customized in house GMP training according to the customer needs.

Consultation services: in regulatory technical issues such as:

- The review of the product registration dossiers, Drug Master Files, Site Master Files.
- Provide pharmaceutical companies with expert reports required for product registration such as clinical and non clinical study reports and also periodic safety update reports (PSUR).
- Pre-audit and evaluation of API and finished product manufacturing sites for regulatory and registration purposes.

Teaching Experience

Courses in Pharmacy

- Pharmaceutical Organic Chemistry – First year
- Organic Chemistry – First year
- Medicinal Lab 1 – Third year

Courses in Chemistry Program

- General Chemistry 1- General Chemistry 2
- Organic Chemistry 1 – Organic Chemistry 2 – Organic Chemistry 3- Physical Organic Chemistry- Instrumental Analysis - Spectroscopic Identification of Organic Compounds.

Current Research Interest

- Nitrene, Carbene and Ylide Chemistry: Matrix Photochemistry, Flash Vacuum Thermolysis, and Spectroscopy: NMR, IR, UV, Mass spectrometries, XRD and DSC.
- Computational Chemistry: modern ab initio and DFT calculations of molecular structure, spectra and energies as an adjunct to experimental studies of reactivity and mechanism.
- Medicinal Heterocyclic Chemistry: synthesis of 1,3-diazepines as anti-psychotic compounds; quinolone and naphthyridone antibiotics also the synthesis of novel antioxidants (Indoloquinone) that can be used as anticancer drugs.
- Syntheses and characterization of star polymer (dendrimers) compounds that can be used as a drug delivery agent.
- Nanochemistry, composites and low temperature superconductors.

Publications

Published papers and Books:

1- Shtaiwi M. and Wentrup C. "Iminopropadienones from dioxanediones, isoxazolopyrimidinones, pyridopyrimidinones, and pyridopyrimidinium olates", J. Org. Chem, 2002, 67, 8565

- 2- Bernhardt, P.; Koch, R.; Moloney, D.; Shtaiwi, M.; Wentrup, C. "Twisting and planarization in push-pull ethylenes" *J. Chem. Soc., Perkin Trans. 2*, 2002, 515
- 3- Bibas, H.; Moloney, D.; Neumann, R.; Shtaiwi, M.; Bernhardt, P.; Wentrup, C. "Chemistry of stable Iminopropadienones" *J. Org. Chem*, 2002, 67, 2619
- 4- Alkhalidi, B.; Shtaiwi, M.; Alkhateb, H.; Bustanji, Y.; Mohammad, M. "A Comparative Study of First-Derivative Spectrophotometry and Column High-Performance Liquid Chromatography Applied to the Determination of Repaglinide in Tablets and for Dissolution Testing" *J AOAC Int*. 2008; 91, 3, 530
- 5- Majed Shtaiwi, Y. M. A. Elgamal and Ahmed Alomary "Mechanism of addition of Methanol to Mesityliminopropadienone" *Asian Journal of Chemistry*, Vol. 24 No.12 (2012), 5536-5538.
- 6- Majed SHTAIWI, *Iminopropadienones*, ISBN-13.: 978-3-8484-0525-1 LAP LAMBERT Publishing GmbH & Co .KG-Germany -2012.
- 7- Majed H. Shtaiwi, Sayed M. Rawi, Nasser M. Alshibly and Mansour A. Al-Hazimi. "Chemical screening and antihyperglycemic property of Cleome droserifolia ethanol extract", *Journal of Medicinal Plant Research*, Vol. 7(37), 2013, pp. 2769-2776.
- 8- Yousif Elgamala, Mohamed Imbaby and Majed Shtaiwi. "Cooxidation of Chalcones and Oxalic acid using Chromium (VI)", *International Journal of Sciences(IJSBAR)*, Vol 15, No 1 (2014), 66-79.
- 9- Qaid M. Saleem, Yousif Algama, Majed Shtaiwi and Mohammad S.Aldahmashi "Treatment of Sewer Water Using Alum Salt", *International Journal of Sciences (IJSBAR)*, Vol 16, No 1 (2014), 165-172.
- 10- Mohamad M.E. Shakdofa, Majed H. Shtaiwi, Nagy Morsy, and Tayseer M.A. Abdel-rassel, "Metal complexes of hydrazones and their biological, analytical and catalytic applications: A review", *Main Group Chemistry* 13 (2014) 187–218, DOI 10.3233/MGC-140133.
- 11- Yousif Algama, M. A. Embaby and Majed H. Shtaiwi, "Substituents effect on cooxidation rate of chalcones and oxalic acid using chromium (VI)" *Journal of Chemical and Pharmaceutical Research*, 2016, 8(5):110-118.
- 12- Mohamad M. E. Shakdofa, Majed H. Shtaiwi, Nagy Morsy, Anas Rasras "Homotrimetallic transition metal complexes of 2-hydroxy-N'1,N'2,N'3-triphenylpropane-1,2,3-tricarbohydrazide preparation, characterization and microbeside activities" *Res. J. Pharm., Biol. Chem. Sci.*, 2017, 8(2): 723-726.
- 13- Majed H. Shtaiwi, Mohammed Himmat, E. Nor Eljaleel Anwar "Synthesis and Evaluation of Some Mannich Bases of Oxytetracycline" *Res. J. Pharm., Biol. Chem. Sci.*, 2017, 8(3): 1400-1407.
- 14- Ihsan Shabeeb, Luay Al-Essa, Majed Shtaiwi, Even Al-Shalabi*, Eyad Younes, Rouzi Okasha, Mohammad Abu Sini. "New Hydrazide-hydrazone Derivatives of Quinoline 3-Carboxylic Acid Hydrazide: Synthesis, Theoretical Modeling and Antibacterial Evaluation" *Letters in Organic Chemistry*, 2019, 16(5): 430-436.
- 15- Al-Hashimi NN, El-Sheikh AH, Qawariq RF, Shtaiwi MH, AlEjjelat R. "Multi-walled carbon nanotubes reinforced into hollow fiber by chitosan sol-gel for solid/ liquid phase microextraction of NSAIDs from urine prior to HPLC-DAD analysis" *Curr Pharm Biotechnol*. 2019, 20, 390-400.
- 16- Amjad H. El-Sheikh , Fayrouz S. Nofal, Majed H. Shtaiwi. "Adsorption and magnetic solid-phase extraction of cadmium and lead using magnetite modified with schiff bases" *Journal of Environmental Chemical Engineering*, 7(4), 2019, 103229

- 17- Nayyef Aljaar, Raghuram Gujjarappa, Mahmoud Al-Refai, Majed Shtaiwi and Chandu C. Malakar "Overview on Recent Approaches towards Synthesis of 2-Keto-annulated Oxazole Derivatives" *Journal of Heterocyclic Chemistry*, 2019, 56, 2730-2743.
- 18- Majed H. Shtaiwi, Duaa M. Tahboub, Amjad H. El-Sheikha, Nabil N. Al-Hashimi "Magnetic solid-phase extraction of metal ions: Comparison of adding Schiff base to the extraction medium vs. magnetite modification with Schiff base" *Journal of Environmental Chemical Engineering*, 2020, 103675.
- 19- E. A. Younes, N. A. Hussein, M. Shtaiwi, F. Shahrokhi, K. Abu Safieh and Y. Zhao. "N-(cyano(naphthalen-1-yl)methyl)benzamides: synthesis, crystal structures, and colorimetric sensing for fluoride anion" *New J. Chem.*, accepted, 2020.

Proceedings:

1. Fabien Borget, Isabelle Couturier, Majed Shtaiwi, Curt Wentrup, 2002, Poster "Mesityliminopropadienone Synthesis and Reactivity" in Université de Provence et CNRS, Centre de St Jérôme, Marseille, France.
2. Majed Shtaiwi and Curt Wentrup, Jordanian International Pharmaceutical Conference, 2008, (JIPC 15-17 October 2008), Seminar "Review of iminopropadienones" Al-Zaytoonah Private University of Jordan.

Referees

- 1- Professor Dr. Curt Wentrup
Department of Chemistry, The University of Qld, St Lucia, Australia, 4072
Email: wentrup@uq.edu.au Tel: +61-7-3365-3817
- 2- Professor Dr. Mohammad S. Mubarak
Department of Chemistry, University of Jordan, Amman 11942, Jordan
E-mail: mmubarak@ju.edu.jo Tel. +962 6 5355000 ext. 2958 or 2320 (Office)
- 3- Professor Dr. Fawwaz I. Khalili
Department of Chemistry, University of Jordan, Amman 11942, Jordan
Email: fkhalili@ju.edu.jo Tel: +962-6- 5355000 ext. 2329