

Salam Maloul

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Personal Information

- Nationality Palestinian
- Gender Female
- Date of birth 11.12.1989

Education

PhD | 01.10.2017 -Present| Ulm University

Master's |12.12.2013 | Ulm University

- Major: Advanced Materials | Very good 1,4
- Topic: Implants Preparation Characterization and Modification using Bioresorbable Polymer for Peripheral Nerve Regeneration.
- Related coursework: Materials Engineering, Biomaterials, Organic Chemistry, Solid State Physics, Polymers in medicine.

Bachelor | 04.01.2011 | Birzeit University

- Major: Chemistry | Distinction 87
- Related coursework: Organic Chemistry, Inorganic Chemistry, Analytical Chemistry, Physical Chemistry, Spectroscopy.

Scholarships and Awards

- 2007-2011 "Faculty of Science" Award, Birzeit University.
- 2011-2013 DAAD (German academic exchange service) scholarship.
- 2017-Present DAAD (German academic exchange service) scholarship.
- 2017-Present Schulmberger Faculty for the future scholarship.

Publications

- M. Darawsheh, H. Abu Ali, a. L. Abuhijleh, E. Rappocciolo, M. Akkawi, S. Jaber, S. Maloul, and Y. Hussein, "New mixed ligand zinc(II) complexes based on the antiepileptic drug sodium valproate and bioactive nitrogen-donor ligands. Synthesis, structure and biological properties," *European Journal of Medicinal Chemistry*, vol. 82, pp. 152-163, 2014.
- H. Abu Ali, S. Maloul, I. Abu Ali, M. Akkawi, S. Jaber, "Dichloro-bis-(pyridine-2-yl-undecyl-amine)zinc(II), [ZnCl₂(C₁₆N₂H₂₆)₂]. Synthesis, characterization and antimalarial activity." *Journal of Coordination Chemistry*, vol. 69, NO. 16, pp. 2514-2522, 2016

Conferences

- 1st Ulm Symposium on Solar-Driven Chemistry, 8-10 Oct. 2017, Ulm University, Germany.
- 16th Tetrahedron Symposium: Challenges in Bioorganic and Organic Chemistry, 16-19 June 2015, Grand Hyatt Berlin, Germany, poster presentation entitled "Implants preparation characterization and modification using TMC-CL Bioresorbable polymer for peripheral nerve regeneration".
- Palestinian Conference for Graduate Student Research in Natural and Applied Sciences, 22.03.2014, Birzeit University, Palestine, best oral presentation award.

Experience

Faculty Member | Birzeit University | 02.02.2014-30.06.2017.

- Teaching of general chemistry courses, Analytical Chemistry.
- Research in the field of Inorganic Chemistry.

Research Work | Max Planck Institute of Molecular Plant Physiology | summer 2014.

- Running analyses for primary metabolites of apple samples using GC-MS instrument.

Master's student | ITV-Denkendorf | 01.05.2013-31.12.2013

- Preparation and characterization of nerve guide conduits for peripheral nerve regeneration using solution blow method, and bioresorbable polymer.
- Preparation and characterization of microcapsules using solvent evaporation method and bioresorbable polymer.

Research assistant | Ulm university (Inorganic Chemistry I Department) | 08.2012-02.2013

- The investigation of the intermolecular interactions between a ruthenium-based Photosensitizer and a molecular metal oxide.
- Studying the supramolecular interactions using H-NMR, UV-Vis and emission spectroscopy and single-crystal X-ray diffraction.

Research assistant | Ulm university (Solid State Physics Department) | 07.2012-02.2013

- Learning different techniques for the nanoparticles synthesis, and pretreatment of different substrates (Wafer spin coating and cutting).
- Physical vapor deposition and microwave Etching techniques.
- Dip coating technique including the preparation of the micelle solution.

Training program | Freiburg university (Faculty of Biology) | 01.09.2011-30.09.2011

- Gene expression analysis using RT-PCR.

Research assistant | Birzeit university (Chemistry Department) | 09.2010-02.2011

- Assist in the preparation of Zinc-Carboxylate Complexes with Nitrogen based ligands.
- Collaborate with scientists from University of Jerusalem to characterize the complexes with IR, UV, NMR, X-ray.
- Investigate the biological activity of the Zinc complexes against different types of bacteria using Disc diffusion method.

Research assistant | Birzeit university (Biology and Biochemistry Department) | 09.2010-02.2011

- Assessment of drought and salinity tolerance of local lentil and chickpea genotypes.
- Analysis of phytohormones and other compatible solutes (e.g. ABA and Jasmonic acid) using HPLC
Investigate the biological activity of the Zinc complexes against different types of bacteria using Disc diffusion method.
- Extraction of RNA, DNA from samples and perform Gene expression analysis using electrophoresis.
- Gene expression analysis using PCR.

Research assistant | Birzeit university (Chemistry Department) | 01.06.2010-30.08.2010

- Hydrochemical analysis of major ions in 20 water springs using Spectrophotometer, and titration techniques.
- Comparing the hydrochemical characteristic of the 20 springs in six villages to the national and international WHO standards.
- Determination of the pollution level of the water springs.
- Evaluation of water springs suitability of drinking purposes and irrigation purposes.

Additional Experience

Training session | Project Proposal Design | Office of Grants and Contracts, Birzeit University | 15.02-22.03.2015

- Building capacity in proposal design for developing working unit.

Participant | Wings of Hope | Germany | 09.2010

- Participated in a leadership training workshops with Palestinian and Bosnian students.
- Participated in workshops about the values of democracy, especially non-violent conflict resolution, dialogue and reconciliation.

Participant | Insight Dubai Conference (Women and Development in Middle East) | Dubai | 04.2010

- Participated in discussion groups about women issues around the world.
- Attended talks and workshops about development, women and culture in United Arab Emirates.
- Presented in front of the conference participants and professionals from UAE about women issues in Palestine.

Skills

- Language skills Arabic (mother language), English (very good), German (good).
- Computer skills Microsoft office, IR software, UV-Vis software, Chemdraw.
- Hobbies Table tennis, traveling, hiking.
- Instruments UV-Vis, GC-MS, HPLC, TEM, FTIR