

Dr. Feda'a M. Al-Qaisi
Ph. D, Inorganic Chemistry
Green Chemistry and Catalysis
University of Helsinki, Finland.

Mobile: +962 796947494

E-mail: feda082@gmail.com, fedaa.al-qaisi@alumni.helsinki.fi

Personal Data Date of Birth: August-19, 1982
Place of Birth: Jordan
Nationality: Jordanian
Gender: Female
Language(s): Arabic and English languages are well spoken.

Education **Doctoral of Science, Inorganic Chemistry, Green Chemistry and Catalysis Helsinki University, Helsinki, Finland, 4/5 ; very good (60 credits). Thesis have defended by 29.04.2016 (Based on four articles)** *Graduated: 2016*

Master of Science, Inorganic Chemistry Hashemite University, Zarqa (Jordan) *Graduated: 2007*
• 3.66/4.00; Excellent (Based on three articles).

Bachelor of Science, Chemistry Hashemite University, Zarqa (Jordan) *Graduated: 2004*
• 3.19/4.00; very good.

Doctoral thesis with title "Cyclic Carbonates Synthesis via Catalytic Cycloaddition of Carbon Dioxide and Epoxides using Sustainable Metal-based Catalysts and Organocatalytic Systems" was successfully defended and approved on **29.04.2016**.

(Helsinki University is nearing the **top 50 universities** in the world, Minimum requirement: **TOEFL IBT (Internet-based) 92**)

M Sc. Graduate, my thesis which is entitled "Synthesis, Characterization, and Kinetic Studies of Some Cobalt(III), Iron(III), and Chromium(III) Complexes with Bidentate Diamine and Salen Ligands" was successfully defended and approved on 30/7/ 2007.

(English language is the medium of instruction in the chemistry department of the Hashemite University, Zarqa, Jordan).

Training Courses *Exchange student, University of Stuttgart, Germany, 2011 (two month).*
Education and evaluation Technology, 18Hrs, Hashemite University, Zarqa.
E-Learning: Lectora®, Blackboard®, Tegrity®, elluminte®, 30 Hrs, Hashemite university, Zarqa.

Publications

Publications

- Minna Räsänen, Eeva Helicvaara, **Feda'a Al-Qaisi**, Timo Repo, Pyridinethiol-Assisted Dissolution of Elemental Gold in Organic Solutions, *Angew. Chem. Int. Ed.* 2018, 57, 1 – 7.
- **F. Al-Qaisi**, E. Streng, A. Tsarev, M. Nieger and T. Repo, Titanium Alkoxide Complexes as Catalysts for the Synthesis of Cyclic Carbonates from carbon Dioxide and Epoxides, *European Journal of Inorganic Chemistry*, 2015, 5363–5367.
- **F. Al-Qaisi**, N. Genjang, M. Nieger and T. Repo, Synthesis, Structure and Catalytic Activity of Bis(phenoxyiminato)Iron(III) Complexes in Coupling Reaction of CO₂ and Epoxides, *Inorganica Chimica Acta*, 2016, 442, 81-85.
- **F. Al-Qaisi**, M. Nieger, M. Kemell and T. Repo, Catalysis of Cycloaddition of Carbon Dioxide and Epoxide using a Bifunctional Schiff base Iron(III) Catalyst, *ChemistrySelect*, 2016, 3, 545–548.
- **F. Al-Qaisi**, K. Chernichenko, A. Tsarev, A. Abu-Surrah and T. Repo, Kinetics and Mechanistic Insight into Synthesis of Cyclic Carbonates from CO₂ and Epoxides by Cooperative Amine-Halide Catalysis. Submitted. 2017
- Abu-Surrah, Adnan S.; Abdel-Halim, Hamzeh M.; **Al-Qaisi, Feda'a M.** Synthesis of cobalt(III), iron(III), and chromium(III) complexes with salicylaldehyde ligands: evaluation of the complexes as catalysts for oxidation of L-cysteine. *Zeitschrift fuer Naturforschung, B: Chemical Sciences*, 2008, 63(7), 848-852.
- Abu-Surrah, Adnan S.; Abdel-Halim, Hamzeh M.; **Al-Qaisi, Feda'a M.** Trans- and cis- cobalt(III), iron(III), and chromium(III) complexes based on α - and β -diimine Schiff base ligands: synthesis and evaluation of the complexes as catalysts for oxidation of L-cysteine. *Zeitschrift fuer Anorganische und Allgemeine Chemie*, 2008, 634(5), 956-961.
- Mahmoud Sunjuk, Adnan S. Abu-Surrah, Kayed A. Abu Safieh, Abdussalam K. Qaroush, **Feda'a M. Al-Qaisi**, γ -Diimine palladium(II) based complexes mediated polymerization of methyl methacrylate, *Arabian Journal of Chemistry*, 2017.

Awards

& Prizes

-
- Scholarship, University of Helsinki 2010-2016.
- A Fully-funded M.Sc. scholarship, Hashemite University.

Positions

- Assistant Prof. , The Hashemite University, Jan 2019 up to now
 - Assistant Prof. , University of Petra, Feb 2018-Jan 2019
 - PhD-student (Scholarship), Chemistry Department, Helsinki, Finland. (Jan,2012- Apr,2016).
 - Researcher (Scholarship), Chemistry Department, Helsinki, Finland. ((Oct, 6st, 2009-2011).
 - Teaching Assistant, Chemistry Department, Hashemite University. (Sep.8th, 2007- Sep., 9th, 2009).
 - Teaching Assistant (Scholarship), Chemistry Department, Hashemite University. (2004- 2006).
-

Teaching Courses

- A 2-year 4-semester T.A., working in the chemistry department as a teaching assistant during my M. Sc. program study, the following duties were:
 1. General Chemistry 101 (Laboratory).
 2. General Chemistry 102 (Laboratory).
 3. Engineering chemistry (Laboratory)
 4. Instrumental Methods of Analysis (Laboratory).
 5. **Inorganic chemistry (Laboratory) (4 semesters).**
 6. **Organic chemistry (laboratory)**
 7. **Systematic chemistry (laboratory)**
- A Full-time teacher Assistant at the Hashemite University with the following taught practical courses:
 1. General Chemistry 101 (Laboratory).
 2. Analytical Chemistry (Laboratory).
 3. Engineering chemistry (Laboratory)
 4. Organic Chemistry (Laboratory).
 5. Systematic Identification of Organic Chemistry (Laboratory).
 6. Instrumental Methods of Analysis (4 semesters Laboratory).

Areas of Research Interest

CO₂ Chemistry; Green Chemistry

Evaluate catalysis as an environmentally benign alternative to the conventional chemical processes for CO₂ fixation with features making them suitable as replacements for currently available toxic methods.

Organic chemistry and Synthesis:

Synthesis, research and development of useful inexpensive, commercially available-, economically viable starting materials that can be applied in organic synthesis and utilization in other useful applications, such as polymerization, catalysis, Green chemistry, industrial facilities.

Instrumentation Skill

1. NMR (Courses in NMR 1 and 2 in Helsinki university + Mutual working during PhD studies)
2. GC-MS
3. EI-MS
4. IR
5. HPLC

Referees & Contact Persons

1. Professor Markku Leskelä, markku.leskela@helsinki.fi
2. Professor Timo Repo, timo.repo@helsinki.fi
3. Dr. Martin.nieger, martin.nieger@helsinki.fi
4. Professor Adnan S. Abu-Surrah, asurrah@hu.edu.jo