CURRICULUM VITAE

Khaled Mohammad Al Khalyfeh

Septemper, 2026



PERSONAL

Place of Birth	Al Aqaba / Jordan
Date of Birth	June 11, 1983
Marital Status	Married
Nationality	Jordanian
Work Address	Department of Chemistry, College of Science, Al-Hussein Bin Talal University, Ma′an, Jordan. Phone: +962-3-2179000 Ext.:6331, E-mail: k.khalyfeh@ahu.edu.jo
Academic Rank (date)	Associate Professor (2021)
Permanent Address	71873 Tayybeh, Ma'an, Jordan. E-mail: Khalyfeh@gmail.com

ACADEMIC QUALIFICATIONS

2014 - 2016	**Ph.D.,** Inorganic Chemistry (Organometallics/ Electrochemistry), Chemnitz University of Technology, Chemnitz, Germany (2017).
2008 - 2012	**M.Sc.,** Chemistry, Mu'tah University, Al-Karak, Jordan (2012).
2001 - 2005	**B.Sc.,** Applied Chemistry, Al-Balqa' Applied University (2005), Al-Balqa', Jordan

SPECIALTY

General Specialization:	Chemistry
Specialization :	Inorganic Chemistry / Organometallics / Electrochemistry

RESEARCH PROFILE & SCHOLARLY METRICS

H-index:	11
Total Citations :	All - 229 / Last Five-years 188.
Google Scholar:	https://scholar.google.com/citations?user=ZxjAwWcAAAAJ&hl=en
ORCID :	https://orcid.org/0000-0002-4934-1960

Publication / Last 5-years	Q1: 5-Publications; Q2: 5-Publications; Q3: 0-Publication; Q4: 1-Publication.

CAREER HISTORY

Dec. 2021 – Now	**Associate Professor,** Department of Chemistry**,** College of Science**,** Al-Hussein Bin Talal University, Ma'an, Jordan.
Dec. 2016 – Dec. 2021	**Assistant Professor,** Department of Chemistry**,** College of Science**,** Al-Hussein Bin Talal University, Ma'an, Jordan.
Feb. 2007 – Apr. 2014	**Laboratory Supervisor and Technician**, Department of Chemistry**,** College of Science**,** Al-Hussein Bin Talal University, Ma'an, Jordan.
Mar. 2006 – Feb. 2007	**Laboratory Technician**, Department of Chemistry**,** College of Science**,** Al-Tafila Technical University, Al-Tafila, Jordan.
April 2005 – Mar. 2006	**Technical and Analyst**, Research and development laboratory, Hikma pharmaceuticals company, Amman, Jordan.

ADMINISTRATIVE EXPERIENCE

Positions

Sep. 2017 – Oct. 2018	**Head of Chemistry Department,** Department of Chemistry, College of Science**,** Al-Hussein Bin Talal University, Ma'an, Jordan.

Committees

May. 2025 – Now	Membership of Innovation, Creativity, and Entrepreneurship Center, Deanship of Scientific Research and Postgraduate Studies.
Oct. 2024 – Sep. 2025	Membership of Council of University.
Sep. 2024 – Sep. 2025	Membership of Quality committee, Department of Chemistry.
Sep. 2020 – Now	Membership of Scientific Research and Projects committee, Department of Chemistry.
Sep. 2020 – Sep. 2022	

	Membership of General Laboratory Safety Committee, Department of Chemistry.
Sep. 2018 – Sep. 2021	Membership of Scientific Research and Projects committee, Faculty of Science.
May 2021 – Jun. 2021	Membership of Tenders of Faculty of Science, Faculty of Science.
Sep. 2020 – Jun. 2021	Membership of Council of Faculty of Science, Faculty of Science.
Sep. 2018 – Oct. 2020	Membership of Study plans committee, Faculty of Science.
Sep. 2017 – Oct. 2018	Membership of Council of Faculty of Science, Faculty of Science.
Sep. 2017 – Oct. 2018	Head of Council of Chemistry, Department of Chemistry.
Sep. 2017 – Oct. 2018	Head of Study plans committee, Department of Chemistry.

HONORS, SCHOLARSHIPS, AWARDS AND GRANTS_____

2023 **TUCamassador**

A representative and a multiplier of Chemnitz University of Technology to strengthen the international network, Chemnitz University of Technology, 09/2023-12/2027, Chemnitz, Germany.

2023 **Visiting Scholar Program Award (*main researcher*)**.

Research Stay, Chemnitz University of Technology, 06/2023-10/2023, Chemnitz, Germany.

Project title “Ferrocenyl-Triazole Complexes Sensing Application for Heavy Metal cations”.

2022 **Deanship of Scientific Research (Al Hussein bin Talal University)- Visiting Research Stay (*main researcher*)**.

Research Stay, Chemnitz University of Technology,02/08/2022-02/09/2022, Chemnitz, Germany.

Project title “Ferrocenyl-Triazole Complexes for Sensor Application; -Synthesis, Characterization and Electrochemistry-”.

2021 **Visiting Scholar Program Award (*main researcher*)**.
Research Stay, Chemnitz University of Technology, 06/2021-9/2021, Chemnitz, Germany.

2020 **Visiting Scholar Program Award (*main researcher*).**
Research Stay, Chemnitz University of Technology, Chemnitz, Germany. (Not enrolled due to Covid-19 closure in the whole world).

2020 **Research Project Grant _ Deanship of Scientific Research (Al Hussein bin Talal University) - (78800 JD) (*main researcher*).**
Project title "Ferrocenyl-Triazole Complexes for Sensor Application; - Synthesis, Characterization and Electrochemistry-". 12/2020-06/2024.

2019 **DFG- Research Project Grant (*main researcher*).**
Project title "Core and End-Grafts Ferrocene-containing Dendrimers: Synthesis, Characterization and electrochemical Behavior", 07/2018-09/2018, Chemnitz, Germany.

2018 **DFG- Research Project Grant (*main researcher*).**
Project title "Ferrocene- / ferrocenyl-functionalized Dendrimers: Synthesis, Characterization and their electrochemical Behavior", 06/2018-09/2018, Chemnitz, Germany.

EXAMINING COMMITTEES

M. SC. Thesis

04/12/2024 The Potential of Agave angustifolia " Marginata " Natural Fiber in Fluorescein Dye Adsorption from Water. Aya Abdel-Rahman Khamis Al-Ewirat. Thesis defended at the Department of Chemistry and Chemical Technology, Tafila Technical University / Jordan.

07/01/2024

18/05/2023	A click Synthesis and Biological Evaluation of 1,2,3-Triazoles-Indole Hybrid. Moath Hatem AL-Alawneh. Thesis defended at the Department of Chemistry, Mutah University / Jordan.
21/05/2023	Density Functional Theory Calculations for the Stability of Gold(1) N-heterocyclic Triazole Complexes. Rozita Alzyoud, Thesis defended at the Department of Chemistry, the University of Jordan / Jordan.
	Density Functional Theory Calculations for the Stability of Gold(l) N-heterocyclic Carbene Complexes. Sahar Ferwaneh, Thesis defended at the Department of Chemistry, the University of Jordan / Jordan.

RESEARCH INTEREST

- Organometallics.
- Electrochemistry of Inorganic and Organometallic compounds.
- Metal Containing Polymer for Batteries and Sensor Applications.

PUBLICATIONS

Peer-reviewed journal articles

- Simultaneous Electrochemical Detection of Multiple Heavy Metal Cations Using Multi-walled Carbon Nanotubes Functionalized with Ferrocenyl-based 1,4-disubstituted-1,2,3-triazole Complex. **K. Al Khalyfeh**, D. Taher, R. Al-As'ad, A. M. Alasoufi, M. Al-Soeidat, S. Weheabby, V. Rajić, I. A. Pašti, O. Kanoun. Journal of RSC Advances, Accepted on August 20, 2026.
- Reliability Improvement of a Three-port Converter for Standalone PV-Battery Applications. M. Al-Soeidat, H. Khawaldeh, **K. Al Khalyfeh**, D. D.-C. Lu and M. Alkhalayfeh. Journal of CPSS Transactions on Power Electronics and Applications (*IEEE Xplore*), 11 (2026) 201-210. https://doi.org/10.24295/CPSSTPEA.2026.00007

- A renewable bio-oil source from green feedstock: Anabasis syriaca. E. Alsbou, M. Gracia- Perez and **K. Al Khalyfeh**. Journal of Renewable Energy 256/G (2026) 124443. https://doi.org/10.1016/j.renene.2025.124443.
- Ferrocenyl-Triazole Complexes and their Use in Heavy Metal Cation Sensing. **K. Al Khalyfeh**, A. Ghazzy, R. M. Al-As'ad, T. Ruffer, O. Kanoun and H. Lang. Journal of RSC Advances 14 (2024) 20572. https://doi.org/10.1039/D4RA04023F.
- Synthesis, characterization, and electrochemical properties of ferrocenyl-based 1,4-disubstituted-1,2,3-triazole derivatives. R. M. Al-As'ad, **K. Al Khalyfeh**, D. Taher, K. I. Assaf, M. H. Tawara, T. Rüffer, H. Lang. Journal of Organometallic Chemistry 1013 (2024) 123170. https://doi.org/10.1016/j.jorganchem.2024.123170.
- Synthesis, characterization, crystal structure and DFT calculations of dysprosiumIII -(E)-ethyl-4-(2-hydroxybenzylidene amino)benzoate. R. M. Al-As'ad, A.A. Abu-Yamin, M. Korb, **K. Al Khalyfeh**, I. A. Elayan, M. H. Almatarneh, H. K. Juwhari, H. Amarne, D. Taher, Z. Ishtaiwi, H. Lang. D. Taher. Journal of Molecular Structure 1280 (2023) 135061. https://doi.org/10.1016/j.molstruc.2023.135061
- Preparation, spectroscopic investigation, biological activity and magnetic properties of three inner transition metal complexes based on (2-((p-tolylimino)methyl)phenol) Schiffbase. M. Alqasaimeh, A.A. Abu-Yamin, S. Matar, **K. Al Khalyfeh**, T. Rüffer, H. Lang, I. A. M. Saraerah, M. Salman, P. F. G. Leniec, H. Amarne, D. Taher. Journal of Molecular Structure 1274 (2023) 134458. https://doi.org/10.1016/j.molstruc.2022.134458
- Rearrangement of Diferrocenyl 3,4-Thiophene Dicarboxylate. A. Ghazzy, D. Taher, M. Korb, **K. Al Khalyfeh**, W. Helal, H Amarne, T. Rüffer, Z. Ishtaiwi and H. Lang. Inorganics 10, 96 (2022) 1-12. https://doi.org/10.3390/inorganics10070096
- Synthesis, chemical and physical properties of lanthanide(III) (Nd, Gd, Tb) complexes derived from (E)-ethyl 4-(2-hydroxybenzylideneamino)benzoate. A. A. Abu-Yamin, D. Taher, M. Korb, **K. Al Khalyfeh**, Z. Ishtaiwi, H. Juwhari, W. Helal, H. Amarne, S. Mahmood, R. Loloee, Y. YouSef, A. Ghazzy and H. Lang. Polyhedron 222 (2022), 115906. https://doi.org/10.1016/j.poly.2022.115906.

- Crystal structure, spectroscopic studies, DFT calculations, and biological activity of 5-bromosalicylaldehyde–based Schiff bases. A. A. Abu-Yamin, A. A. Q. M. Jbarah, **K. Al Khalyfeh**, S. Matar, W. Helal, M. Korb, H. Amarne and H. Lang. Journal of Molecular Structure 1262 (2022), 132976. https://doi.org/10.1016/j.molstruc.2022.132976
- Crystal Structure and Hirshfeld Surface Analysis of Bis(3-thienoyl) Disulfide. **K. Al Khalyfeh**, D. Taher, W. Helal, M. Korb, H. Amarne and H. Lang. Journal of Chemical Crystallography 52 (2022) 113-121, https://doi.org/10.1007/s10870-021-00896-z
- Thiacrown Ethers Engaged C 60 through Charge Transfer: Experimental and Theoretical Study. **Khaled Al Khalyfeh**, Akef T. Afaneh, Ali Marashdeh, Mansour H. Almatarneh, Ghassab M. Al-Mazaideh, Shehadeh Mizyed, and Muhammad Ashram. ACS Omega 5 (2020), 25049–25058. https://doi.org/10.1021/acsomega.0c01877.
- Synthesis and Characterization of 1,4-chalcogenesters Bearing 5-Membered Heterocycles. **Khaled Al Khalyfeh**, Deeb Taherb, Wissam Helal, Marcus Korb, Imad Hamadneh, Ammar Al-Dujaili, Amer Imraish, Hana M Hammad, Randa M. Al-As'ad, Sultan T Abu-Orabi, Alexander Hildebrandt, Heinrich Lang. Journal of Chemical Sciences 132:117 (2020). https://doi.org/10.1007/s12039-020-01825-x.
- Aryl ferrocenylmethylesters: Synthesis, solid-state structure and electrochemical investigations. Asma Ghazzy, Deeb Taher, Wissam Helal, Marcus Korb, **Khaled Khalyfeh**, Firas F. Awwadi, Rasha K. Al-Shewiki, Saddam Weheabby, Naim Al-Said, Sultan T. Abu-Orabi, Heinrich Lang. Arabian Journal of Chemistry 13 (2020), 3546-3557. https://doi.org/10.1016/j.arabjc.2018.12.006
- Corrosion and Electrochemical Studies on the Stability of New Thiacrown Ethers Derived from Quinoline. Ghassab Al-Mazaideh, Muhammad Ashram, **Kahled Al Khalyfeh**, Mansour Almatarneh. Jordan Journal of Chemistry, 14 (2019), 89-96.
- Study the effect of Substituents X on Methylenecyclopentane and 1-Methylcyclopentene System. Ghassab Al-Mazaideh, Ashraf Al-Msiedeen, Fadi Alakhras, Hammad Aldal'in, Haya Salman, Zeinab Al-Itiwi, **Khaled Al Khalyfeh**, Salim Khalil. Jordanian Journal of Engineering and Chemical Industries (JJECI), 1 (2018) 63-70.

- Ferrocenylmethyl-Functionalized 5-Membered Heterocycles: Synthesis, Solid-State Structure and Electrochemical Investigations. D. Taher, A. Ghazzy, F. F. Awwadi, W. Helal, **K. Al Khalyfeh**, M. Korb, A. Hildebrandt, E. Kovalski, H. Lang. Polyhedron, 152 (2018) 188-194. https://doi.org/10.1016/j.poly.2018.06.038
- Anionic Polymerization of Multi-Vinylferrocenes. **Khaled Al Khalyfeh**, Jonas F. Nawroth, Martin Uhlemann, Ulrich Stoeck, Lars Giebeler, Rainer Jordan and Alexander Hildebrandt. J. Organomet. Chem. 853 (2017) 149–158**.** https://doi.org/10.1016/j.jorganchem.2017.10.009.
- Ferrocene-Based Monomers, Oligomers and Polymers as Electro-Active Materials. **K. Al Khalyfeh** - 2016 - qucosa.de.
- Electron Transfer Studies on Conjugated Ferrocenyl Containing Oligomers. A. Hildebrandt, **K. Al Khalyfeh**, J. F. Nawroth and R. Jordan. Organometallics, 2016, 35, 3713–3719. https://pubs.acs.org/doi/abs/10.1021/acs.organomet.6b00673.
- Multi-functionalized ferrocenes: -Synthesis and characterization-. A. Hildebrandt, **K. Al Khalyfeh,** D. Schaarschmidt and M. Korb. J. Organomet. Chem., 2016, 804, 87–94. http://dx.doi.org/10.1016/j.jorganchem.2015.12.027.

CONFERENCES AND PROCEEDINGS

- Attendance: Chemistry Horizons, Innovation for a Sustainable Future (held on April 28-29, 2026, at Jerash University).
- Workshop: Smart Sensor Technologies for Modern Biomedical Engineering Applications (SENSET), Organized in collaboration between German Jordanian University and Chemnitz University of Technology, Germany. / (held on October 20-24, 2024, at the German Jordanian University) / Attendance and training.
- Poster: Multi-functionalized ferrocenes: -Synthesis and characterization- **K. Al Khalyfeh**, A. Hildebrandt. 14th Ferrocene Colloquium Konstanz, 2016, Konstanz, Germany.
- Talk: New Ferrocene Based Monomers and Polymers as Electro-Active Materials. **K. Al Khalyfeh**, A. Hildebrandt. MANS–14 (2016), Halle, Germany.

- Talk: New Ferrocene Based Monomers and Polymers as Electro-Active Materials. **K. Al Khalyfeh**. International Conference on Advanced Materials, 2017, Irbid, Jordan.

TEACHING

Courses Taught-undergraduate

- General Chemistry 1 (Chem. 101), Al-Hussein Bin Talal University.
- General Chemistry 2 (Chem. 102), Al-Hussein Bin Talal University.
- General Chemistry Lab. 1 (Chem. 103), Al-Hussein Bin Talal University.
- General Chemistry Lab. 2 (Chem. 104), Al-Hussein Bin Talal University.
- Inorganic Chemistry 1 (Chem. 221), Al-Hussein Bin Talal University.
- Inorganic Chemistry 2 (Chem. 321), Al-Hussein Bin Talal University.
- Inorganic Chemistry 3 / Organometallics (Chem. 421), Al-Hussein Bin Talal University.
- Inorganic Chemistry Lab (Chem. 322), Al-Hussein Bin Talal University.
- Electrochemistry (Chem. 414), Al-Hussein Bin Talal University.
- Industrial Inorganic Chemistry 1 (Chem. 461), Al-Hussein Bin Talal University.
- Descriptive Chemistry of the Elements (Chem. 423), Al-Hussein Bin Talal University.
- Chemistry and Life (Chem 236), Al-Hussein Bin Talal University.
- Seminar and Research (Chem. 470), Al-Hussein Bin Talal University.
- Scientific Research Project (Chem. 474), Al-Hussein Bin Talal University.
- Organic Chemistry Lab 1 (Chem. 233), Al-Hussein Bin Talal University.
- Organic Chemistry Lab for non-chemistry students (Chem. 236), Al-Hussein Bin Talal University.

SKILLS

Languages

- Arabic (native)
- English (excellent)
- Germany (Level A1)

Computer Programs

- ICDL