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<sup>1</sup>Dr.Mohammad Farouq Khanfar

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German Jordanian University  
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#### Personal Information

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Born in Kuwait, Feb., 21<sup>st</sup>, 1973  
Citizen of Jordan and of Canada

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#### Teaching Experience

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Associate Professor, School of Applied Medical Sciences, German Jordanian University,  
April 2020-present.

Assistant Professor, School of Applied Medical Sciences, German Jordanian University,  
September 2011-April 2020.

Teaching and Research Assistant, Department of Chemistry, York University, Canada,  
September 2004- September 2009.

Teaching and Research Assistant, Department of Chemistry, Memorial University of  
Newfoundland, Canada, September 2001- September 2003.

Teaching Assistant, Teachers College in Dammam, Dammam, Saudi Arabia, September  
1999- July 2001.

Lab Instructor, Faculty of Pharmacy, Philadelphia University, Amman, Jordan, March 1997-  
August 1999.

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#### Courses Taught

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General Chemistry, Course and Lab  
Analytical Chemistry, Course and Lab  
Instrumental Analysis, Course and Lab  
Physical Chemistry, Course and Lab  
Practical Organic and Inorganic Labs

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#### Education

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2010, Ph.D. in Electrochemistry, York University, Toronto, ON, Canada. Thesis advisor:  
Prof. Sylvie Morin

2003, M.Sc. in Electrochemistry, Memorial University of Newfoundland, St.John's, NF,  
Canada. Thesis Advisor: Prof. Peter Pickup

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<sup>1</sup> Updated October 2020

1997, M.Sc. in Fluorescence Spectroscopy, Yarmouk University, Irbid, Jordan.  
Thesis Advisor: Prof. Khader Al-Hassan

1994, B.Sc. in Chemistry, Yarmouk University, Irbid, Jordan

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#### Research Interests

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Fluorescence Spectroscopy  
Surface Electrochemistry  
Scanning Probe Microscopy  
Chromatographic Analysis  
DFT Calculations

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#### List of Publications

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**Mohammad F. Khanfar**, Eyad S. M. Abu-Nameh, Munib M. Saket, Lujain T. Al Khateeb, Akram Al Ahmad, Zeinab Asaad, Zaina Salem, and Nasim Alnuman, Detection of Hydrochlorothiazide, Sulfamethoxazole, and Trimethoprim at Metal Oxide Modified Glassy Carbon Electrodes, International Journal of Electrochemical Science, accepted.

**M.F. Khanfar**, E. S. M. Abu-Nameh, A. T. Afaneh, M. M. Saket, A. Ahmad, W. Faraj, M. Khalil, H. Al Khotaba, M. Al Bujog, Voltammetric detection of hydrochlorothiazide at molybdenum oxide modified screen-printed electrodes, Bulgarian Chemical Communications, accepted.

**Mohammad F. Khanfar**, Naela Al Absi, Eyad S. M. Abu-Nameh, Munib M. Saket, Natalie Khorma, Raya Al Daoud, and Nasim Alnuman, Ag/Au Modified Nafion Coated Glassy Carbon Electrode for the Detection of Metronidazole, International Journal of Electrochemical Science, 14 (2019) 3265.

**Mohammad F. Khanfar**, Nour J. Abu Eishah, Loiy Al-Ghussain and Ala'aldeen T. Al-Halhou, li Lab on a Chip for the Colorimetric Determination of Nitrite in Processed Meat Products in the Jordanian Market, Micromachines, 10(2019)36.

Abdussalam K. Qaroush, Fatima A. Alsoubani, Ala'a M. Al-Khateeb, Enas Nabih, Esraa Al-Ramahi, **Mohammad F. Khanfar**, Khaleel I. Assaf and Ala'a F. Eftaiha, An efficient atom-economical chemoselective CO<sub>2</sub> cycloaddition using lanthanum oxide/tetrabutyl ammonium bromide, Sustainable Energy Fuels, 2018, 2, 1342–1349

**Mohammad F. Khanfar**, Wisam Al-Faqheri and Ala'aldeen Al-Halhouli, Low Cost Lab on Chip for the Colorimetric Detection of Nitrate in Mineral Water Products, Sensors 2017, 17, 2345, 1-9

**Khanfar M. F.**; Morin S.; Oxygen Reduction at Cobalt Phthalocyanine Modified Au (111) Electrodes. ECS Transactions (2010), 25(23), 33-45.

Song, Chaojie; Khanfar, **Mohammad F.**; Pickup, Peter G. Mo oxide modified catalysts for direct methanol, formaldehyde and formic acid fuel cells. Journal of Applied Electrochemistry (2006), 36(3), 339-345.

Al-Hassan, Khader A.; **Khanfar, Mohammad F.**; Fluorescence probes for cyclodextrin interiors. *Journal of Fluorescence* (1998), 8(2), 139-152.

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#### Conferences and Presentations

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Mohamad K. Khawaja, **Mohammad F. Khanfar**, Talin Oghlenian, Waed Alnahar, Fabrication and Electrochemical Characterization of Carbon Based Supercapacitor Electrodes, 2019 10th International Renewable Energy Congress (IREC) DOI: 10.1109/IREC.2019.8754605

Al-Gharabli, S, Abu El-Rub, Z, and **Khanfar, M**, "High Throughput Screening of Oil Content in Jordanian Oil Shale Using ATR-FTIR and Refractive Index Techniques ", the 7<sup>th</sup> Jordan International Chemical Engineering (JICChE 07) Conference, Amman, Jordan, 2014

Maryam Hariri, Mahdiah Atighi, **Mohammad F. Khanfar**, Alexandre Brolo, and Sylvie Morin "Electrochemical and Spectroelectrochemical Study of Reduction of Oxygen on Cobalt Phthalocyanines" 223<sup>rd</sup> ECS Meeting, 2013 The Electrochemical Society

**Mohammad F. Khanfar**, Susan H. Zheng, and Sylvie Morin "Electrochemistry of Metal Porphyrines Monolayers Adsorbed on Gold Single Crystal Surfaces", 93<sup>rd</sup> Canadian Chemical Society Conference and Exhibition, May-June 2010, Toronto Metro Convention Center, Toronto, ON, Canada (oral presentation)

**Mohammad F. Khanfar** and Sylvie Morin "Metal Phthalocyanines Modified Gold Single Crystal Electrodes", Surface Canada Conference, June 2009, McMaster University, Hamilton, ON, Canada (oral presentation)

**Mohammad F. Khanfar** and Sylvie Morin "Electrochemistry of Metal Phthalocyanines Monolayers" , The 58<sup>th</sup> Annual Meeting of the International Society of Electrochemistry, September 2007, Banff, AB, Canada (poster presentation)

**Mohammad F. Khanfar**, Suzan Zheng, and Sylvie Morin "Study of Metal Phthalocyanines Modified Gold Single-Crystal Electrodes", 90<sup>th</sup> Canadian Chemical Society Conference and Exhibition, May 2007, Winnipeg Convention Center, Winnipeg, MB, Canada (oral presentation)

**Mohammad F. Khanfar** and Sylvie Morin "Metal Phthalocyanines Modified Gold Single Crystal Electrodes", Surface Canada Conference, May 2006, Queens University, Kingston, ON, Canada (poster presentation)

**Mohammad F. Khanfar** and Sylvie Morin "Cobalt Phthalocyanines Modified Electrodes", The Canadian Section of the Electrochemical Society, Young Authors Symposium, August 2005, Guelph University, Guelph, ON, Canada (poster presentation)

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#### List of Funded Projects

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Investigating the Performance of Transition Metal Compounds as Catalysts for Fuel Cells, 69800 JD, Scientific Research Support Foundation, 2014-2017, in collaboration with Dr. Monther Khanfar and Dr. Zayed Al Hamamreh from Jordan University

Utilization of Lab on a Chip Technology for the Colorimetric Determination of Chemical Compounds, 15000JD, Abdul Hameed Shoman Foundation, 2015-2017, in collaboration with Dr. Alaa Al Halhouli from German Jordanian University.

Investigation of the Electrochemical Stability of Active Pharmaceutical Ingredients, 16500 JD, Research Seed Fund, 2014-2016, in collaboration with Prof. Khalid Barqawi from Yarmouk University and Prof. Raed Qawasmi from Jordan University.

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#### Memberships

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Member of the Electrochemical Society Inc. (ECS) and the Canadian Section of the ECS, 2002-present.

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#### Administrative Experience

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Acting Head, Department of Pharmaceutical and Chemical Engineering, School of Applied Medical Sciences, German Jordanian University, September 2016-September 2020.

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#### Links

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[https://www.researchgate.net/profile/Mf\\_Khanfar](https://www.researchgate.net/profile/Mf_Khanfar)

<https://scholar.google.com/citations?user=PNu2FJsAAAAJ&hl=ar>