Curriculum Vitae

Personal Information

Name	**Rakan Mohammad Altarawneh**
Gender	**Male**
Date of Birth	**31.07.1985**
Place of Birth	**Karak/Jordan**
Nationality	**Jordanian**
Marital Status	**Single**
Occupation	**Assistant Professor**
Email:	**rma766@mutah.edu.jo**
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Education

Memorial University of Newfoundland, NL, Canada
Doctor of Philosophy, Electroanalytical Chemistry – Prof. Peter Pickup *09/2015 – 08/2018*
Thesis: Product distributions and efficiencies for ethanol oxidation in proton exchange membrane electrolysis cells.

Mu'tah University, Alkarak, Jordan
Master of Science, Analytical Chemistry – Prof. Mufeed Batarseh *2008 - 2012*
Thesis: Multiresidue Analysis of Pesticides in Soil Profile from the Jordan Valley using GC-ECD.

Mu'tah University, Alkarak, Jordan
Bachelor of Science, Chemistry *2003 - 2007*

Secondary Education certificate for **Scientific stream** from Karak, Jordan. *2002 - 2003*

Language

Arabic : Native Arabic

English : Very Good Command in Reading, Writing and Speaking

Awards

Recognition of Excellence *05/2018*

Awarded by the Dean of Graduate Studies - Memorial University of Newfoundland, NL, Canada

Research Excellence Award *03/2018*

Awarded by the Graduate Students' Union - Memorial University of Newfoundland, NL, Canada

Chen Award *01/2018*

Awarded by the Department of Chemistry - Memorial University of Newfoundland, NL, Canada

Honour Award *07/2012*

Awarded by the Deanship of Graduate Studies- Mu'tah University, Alkarak, Jordan

Sponsorships

2015 - 2018 Full scholarship from Mu'tah University, Ph.D., Memorial University, NL - Canada.

2003 – 2007 Full scholarship from His Majesty King Abdullah Bin Husain II, B.Sc., Mu'tah University, Al-Karak-Jordan

Grants

2020 Mu'tah University Grant No. 349/2020. "Evaluation of antioxidant and inhibitory activity of medicinal plant extracts in Jordan", Fund of 18000 USD. Jordan.

2021 Mu'tah University Grant (under processing). " Making and characterizing new anode catalysts with higher performance for proton exchange membrane fuel cells", Fund of 150000 USD. Jordan.

Memberships

The Electrochemical Society (ECS)	United States
Chemical institute of Canada (CIC)	Canada

Research and Teaching Experience

2018 - Present	**Assistant Professor** at Chemistry Department/ Faculty of Science - Mu'tah University, Jordan.
2015 - 2018	**Ph.D candidate** at Chemistry Department/ Memorial University of Newfoundland, NL, Canada.
2012 - 2014	**Teaching Assistant** for general chemistry students, medical, engineers and biology students at Chemistry Department - Mu'tah University, Jordan
2011 - 2012	**Research Assistant** in the area of Environmental and Sustainable Chemistry such as Multiresidue Analysis of Pesticides in Water and soil using GC-ECD and GC-MS, Prince Faisal Center for Dead Sea, Environmental and Energy Research\ Mu'tah University, AlKarak, Jordan.
2007- 2011	**Chemistry Teacher**: Teaching chemistry and science courses in different schools for different levels in the Ministry of Education /Jordan.

Training Courses

- Gas Chromatograph equipped with Electron Capture Detector (**GC/ECD**).
- Gas Chromatography Mass Spectrometry (**GC/MS**).
- Gas Chromatograph equipped with Flame Ionization Detector (**GC/FID**).
- Training at Nuclear Magnetic Resonance spectroscopy (**NMR**).
- **MUCDL**: Mu'tah University Computer Driving License, Mu'tah University, 2015.
- **ICDL**: International Computer Driving License, 2012.

Skills and Capabilities

- Having excellent skills in teaching chemistry.
- Working in a challenging job condition.
- Highly Motivated in Social Interpersonal Communication with others.
- Has a good ability to work under pressure.
- The ability to use Internet and the scientific research approaches.
- Able to take leadership appropriately.

- Being familiar with the latest sciences.
- **IELTS** with score 6, 2014.
- **TOFEL** (Test of English as a Foreign Language), 2010.

Publications and Presentations

1. **R. M. Altarawneh**, "Overview on the Vital Step toward Addressing Platinum Catalyst Poisoning Mechanisms in Acid Media of Direct Ethanol Fuel Cells (DEFCs)." Energy & Fuels 35.15 (2021): 11594-11612.
2. A. Tarawneh, I. Salamon, **R. M. Altarawneh**, J. Mitra, and A. Gadetskaya. "Assessment of Lichens as Biomonitors of Heavy Metal Pollution in Selected Mining Area, Slovakia." Pakistan Journal of Analytical & Environmental Chemistry 22.1 (2021): 53-59.
3. H. Hang, **R. M. Altarawneh**, T. M. Brueckner, and P. G. Pickup, Mixed metal oxide supports for ethanol oxidation catalysts, Journal of The Electrochemical Society, 167 054518 (2020).
4. **R. M. Altarawneh,** "Levels of selected heavy metals (Pb, Ni, Cd, and Cr) in various widely consumed fruits and vegetables in Jordan." International Journal of Environmental Analytical Chemistry 101.7 (2019): 1026-1033.
5. **R. M. Altarawneh,** Faradaic Efficiencies for Methanol Oxidation in Proton-Exchange Membrane Electrolysis and Fuel Cells with Various Anode Catalysts, Int. J. Electrochem. Sci., 14, 7016 (2019).
6. B. Chen, T. M. Brueckner, **R. M. Altarawneh** and P. G. Pickup, Composition dependence of ethanol oxidation at ruthenium-tin oxide/carbon supported platinum catalysts, J. Electrochem. Soc., 165, J3019 (2018).
7. **R. M. Altarawneh** T. M. Brueckner, B. Chen and P. G. Pickup, Product distributions and efficiencies for ethanol oxidation at PtNi octahedra, , J. Power Sources, 400, 369 (2018).
8. **R. M. Altarawneh** and P. G. Pickup, Determination of the stoichiometry of ethanol oxidation from the flow rate dependence of the current in a proton exchange membrane electrolysis cell, J. Electrochem. Soc., 156, F479 (2018).
9. **R. M. Altarawneh** and P. G. Pickup, Pt and PtRu catalyst bilayers increase efficiencies for ethanol oxidation in proton exchange membrane electrolysis and fuel cells, J. Power Sources, 366, 27 (2017).
10. **R. M. Altarawneh** and P. G. Pickup, Product Distributions and Efficiencies for Ethanol Oxidation in a Proton Exchange Membrane Electrolysis Cell J. Electrochem. Soc., 164, F861 (2017).
11. **R. M. Altarawneh**, P. Majidi and P. G. Pickup, Determination of the efficiency of ethanol oxidation in a proton exchange membrane electrolysis cell, J. Power Sources, 351, 106 (2017).
12. Poster Presentations (*Presenter)

R. M. Altarawneh and P. G. Pickup, "Product distributions and efficiencies for ethanol oxidation in proton exchange membrane electrolysis and fuel cells". 42nd Annual Science Atlantic Chemistry Conference (ChemCon 2017), Memorial University of Newfoundland, Canada.

13. P. Majidi, **R. M. Altarawneh**, N. D. W. Ryan and P. G. Pickup, Determination of the efficiency of methanol oxidation in a direct methanol fuel cell, Electrochim. Acta, 199, 210 (2016).
14. Oral Presentations (*Presenter)

    Rakan M Altarawneh*, Mufeed Batarseh. "Multi residue Analysis of Pesticides in Soil Profile from the Jordan Valley using GC-ECD". Regional Workshop of DAAD-EXCEED Project "Wastewater Treatment and Reuse" 3rd-6th June 2013, Konya-Turkey
15. **Rakan Tarawneh**, Mufeed Batarseh. Multiresidue Analysis of Pesticides in Agriculture Soil from Jordan Valley. 2013. Jordan Jorunal of chemistry.Vol. 8, No. 3.

References

Will be furnished upon request.