

CURRICULUM VITAE

“Ayat Allah” Turki Al-Massaedh, Ph.D.

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Nationality: Jordanian

Civil status: Married

Education

- 2011-2014 **Ph.D.** Analytical Chemistry, University of Marburg, Marburg, Germany.
Dissertation title: Adamantyl-Group Containing Mixed-Mode Acrylamide-Based Continuous Beds for Capillary Electrochromatography: Synthesis, Characterization, Optimization and Investigation of the Chromatographic Efficiency.
- 2001-2003 **M.Sc.** Chemistry, Jordan University of Science and Technology, Irbid, Jordan.
Thesis title: Adsorption and Hydrodechlorination of Freon 22 (CF₂ClH) over Pt/Silica and Pt/Dimethylsiloxane-Silica.
- 1997-2001 **B.Sc.** Chemistry, Jordan University of Science and Technology, Irbid, Jordan.

Employment & Experiences

- Jul 2019-Now Associate Professor of Analytical Chemistry, Department of Chemistry, Al al-Bayt University, Mafraq, Jordan.
- Nov 2014-Jul 2019 Assistant Professor of Analytical Chemistry, Department of Chemistry, Al al-Bayt University, Mafraq, Jordan.
- Jun-Sep 2015 Research visit, Department of Chemistry, University of Marburg, Marburg, Germany.
- Jun-Sep 2014 Research visit, Department of Chemistry, University of Marburg, Marburg, Germany.
- 2005-2011 Lecturer, Department of Chemistry, Al al-Bayt University, Mafraq, Jordan.
- 2003-2005 Analyst (Chemical), Department of quality control, VAPCO (Veterinary and Agricultural Product Company), Al Zarqa, Jordan.

Research interest

1. Synthesis and characterization of novel stationary phases for capillary electrochromatography on the basis of macroporous organic polymers (monoliths).
2. Environmental Analytical Chemistry.
3. Development of novel macroporous organic polymers (monoliths) as adsorbents for organic and inorganic pollutants removal.

Courses

1. General chemistry 1 & 2
2. Practical general chemistry 1 & 2
3. Analytical chemistry 1 & 2
4. Practical analytical chemistry
5. Instrumental analysis
6. Practical instrumental analysis

Trainings & Workshops

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| 18 Apr 2018 | “Horizon 2020 Information Session” workshop, The higher council for science and Technology (HCST), Amman, Jordan. |
| 1-30 Apr 2017 | “Using ICP-OES in Analysis” training, Water, Environment and Arid Region Research Center (WEARRC), Al al-Bayt University, Mafraq, Jordan. |
| 4-6 Sep 2016 | “How to get funding: Grant writing workshop for researchers” , Deutsche Gesellschaft Fur Internationale Zusammenarbeit (GIZ), Amman, Jordan. |
| 12-14 May 2016 | “Towards Collaborative Innovation Workshop” , Deutsche Gesellschaft Fur Internationale Zusammenarbeit (GIZ), Dead Sea, Jordan. |
| 6-7 Jun 2012 | “Current Issues of Instrumental Analysis” workshop, Agilent Technologies, Waldbronn, Germany. |
| 4-6 Jul 2004 | “Quality Control Charts in Chemical Analysis Lab” workshop, Royal Scientific Society, Amman, Jordan. |

Publications

1. **“Ayat Allah” Al-Massaedh**, Fawwaz I. Khalili, Removal of heavy metal ions from aqueous solution by anionic polyacrylamide-based monolith: equilibrium, kinetic and thermodynamic studies, *Desalination and Water Treatment* (2021) 1-15.
2. **“Ayat Allah” Al-Massaedh**, Fawwaz I. Khalili, Removal of thorium (IV) ions from aqueous solution by polyacrylamide-based monoliths: equilibrium, kinetic and thermodynamic studies, *Journal of Radioanalytical and Nuclear Chemistry* 327 (2021) 1201–1217.
3. **“Ayat Allah” Al-Massaedh**, Idrees F. Al-Momani, Assessment of Heavy Metal Contamination in Roadside Soils along Irbid-Amman Highway, Jordan by ICP-OES, *Jordan Journal of Chemistry* 15 (2020) 1-12.
4. **“Ayat Allah” Al-Massaedh**, Ahmad Gharaibeh, Samah Radaydeh, Idrees Al-Momani, Assessment of toxic and essential heavy metals in imported dried fruits sold in the local markets of Jordan, *European Journal of Chemistry* 9 (2018) 395-400.
5. **“Ayat Allah” Al-Massaedh**, Ute Pyell, Preparation of Cationic Mixed-Mode Acrylamide-Based Monolithic Stationary Phases for Capillary Electrochromatography, *Chromatographia* 81 (2018) 1325-1336.
6. **“Ayat Allah” Al-Massaedh**, Ute Pyell, Mixed-mode acrylamide-based continuous beds bearing tert-butyl groups for capillary electrochromatography synthesized via complexation of N-tert-butylacrylamide with a water-soluble cyclodextrin. Part II: Effect of capillary size and polymerization conditions on morphology and chromatographic efficiency, *Chromatographia* 80 (2017)1669-1682.
7. Adnan. M. Massadeh, **“Ayat Allah” T. Al-Massaedh**, Determination of Heavy Metals in Canned Fruits and Vegetables Sold in Jordan Market, *Environmental Science and Pollution Research* 25 (2018) 1914-1920.
8. Adnan. M. Massadeh, **“Ayat Allah” T. Al-Massaedh**, Sameh Kharibeh, Determination of selected elements in canned food sold in Jordan markets, *Environmental Science and Pollution Research* 25 (2018) 3501-3509.
9. **“Ayat Allah” Al-Massaedh**, Ute Pyell, Mixed-mode acrylamide-based continuous beds bearing tert-butyl groups for capillary electrochromatography synthesized via complexation of N-tert-butylacrylamide with a water-soluble cyclodextrin. Part I: Retention properties, *Journal of Chromatography A* 1477 (2016) 114-126.
10. **“Ayat Allah” Al-Massaedh**, Manuel Schmidt, Ute Pyell, Uwe M. Reinscheid, Elucidation of the Enantiodiscrimination Properties of a Nonracemic Chiral Alignment Medium through Gel based Capillary Electrochromatography: Separation of the Mefloquine Stereoisomers, *ChemistryOpen* 5 (2016) 455-459.
11. **“Ayat Allah” Al-Massaedh**, Ute Pyell, Adamantyl- group containing mixed-mode acrylamide-based continuous beds for capillary electrochromatography. Part IV: Investigation of the chromatographic efficiency dependent on the retention mode, *Journal of Chromatography A* 1349 (2014) 80-89.

12. **“Ayat Allah” Al-Massaedh**, Ute Pyell, Adamantyl- group containing mixed-mode acrylamide-based continuous beds for capillary electrochromatography. Part III. Optimization of the chromatographic efficiency, *Journal of Chromatography A* 1325 (2014) 186-194.
13. **“Ayat Allah” Al-Massaedh**, Ute Pyell, Adamantyl- group containing mixed-mode acrylamide-based continuous beds for capillary electrochromatography. Part II. Characterization of the synthesized monoliths by inverse size exclusion chromatography and scanning electron microscopy, *Journal of Chromatography A* 1325 (2014) 247-255.
14. **“Ayat Allah” Al-Massaedh**, Ute Pyell, Adamantyl- group containing mixed-mode acrylamide-based continuous beds for capillary electrochromatography. Part I: Study of a synthesis procedure including solubilization of N-adamantyl-acrylamide via complex formation with a water- soluble cyclodextrin, *Journal of Chromatography A* 1286 (2013) 183-191.
15. Rateb Hina, Isam Arafa, **Ayyat Masadeh**, Hydrogenation of CHClF_2 (CFC-22) over Pt-supported on silica-based polydimethylsiloxane composite matrices. *Reaction Kinetics and Catalysis Letters* 87 (2006) 191-198.

Conferences

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| 5-6 Apr 2017 | International Conference of Chemistry and Biosciences (ICCB) , Al al-Bayt University, Jordan. |
| 6 Jan 2013 | 23. Doktorandenseminar des AK Separation Science, Hohenroda, Germany. |
| 25 Sep 2012 | CE Forum 2012 - Capillary Electromigration Separation Techniques, Aalen, Germany. |
| 16-17 Sep 2013 | CE Forum 2013 - Capillary Electromigration Separation Techniques, Jena, Germany. |
| 16-20 Jun 2013 | HPLC 2013-39th International Symposium on High Performance Liquid Phase Separations and Related Techniques, Amsterdam, The Netherlands. |
| 4-5 Oct 2011 | CE Forum 2011 -Capillary Electromigration Separation Techniques, Regensburg, Germany. |

Grants & scholarships

1. PHD scholarship, Al al-Bayt University, Mafraq, Jordan, 2011-2014.
2. Research training grant, Deutsche Gesellschaft Fur Internationale Zusammenarbeit (GIZ), Amman, Jordan, 2017.

References

1. **Prof. Dr. Ute Pyell**
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