

CURRICULUM VITAE

Personal Details

Name Ramia AL BAKAIN

Nationality Jordanian

Place of work The University of Jordan, Faculty of Science, Department of Chemistry, Amman-Jordan

Education

Ph.D. Analytical and Bioanalytical Chemistry, **Université Pierre et Marie-Curie (UPMC), Paris-France.**

Publications

- 1) **Ramia Z. Al Bakain**, Yahya S. Al-Degs, James V. Cizdziel & Mahmoud A. Elsohly, “*Linear Discriminant Analysis based on Gas Chromatographic Measurements for Geographical Prediction of USA Medical Domestic Cannabis*”. Journal of Acta Chromatographica. DOI: <https://doi.org/10.1556/1326.2020.00782>, **2020**.
- 2) **Ramia Z. Al Bakain**, Yahya S. Al-Degs, James V. Cizdziel & Mahmoud A. Elsohly, “*Comprehensive Chromatographic Profiling of Cannabis From 23 USA States Marketed For Medical Purposes*”. Journal of Acta Chromatographica. DOI: <https://doi.org/10.1556/1326.2020.00767>, **2020**.
- 3) **Ramia Z. Al Bakain**, Yahya S. Al-Degs, James V. Cizdziel & Mahmoud A. Elsohly; “*Comprehensive classification of USA cannabis samples based on chemical profiles of major cannabinoids and terpenoids*”. Journal of Liquid Chromatography & Related Technologies. **2020**, 43 (5-6), 172-184.
- 4) Mohammad Yasin Mohammad, Ashok Shakya, **Ramia Al Bakain**, M.H. Haroon, M. Iqbal Choudhary, “*New monoterpene by biotransformation of thymoquinone using Aspergillus niger*”. Journal of Bioorganic Chemistry, **2018**, Volume 80, 212- 215.
- 5) **Ramia Al Bakain**, Yahya Al-Degs, Bertyl Andri, Didier Thiébaud, Jérôme Vial, Isabelle Rivals, “*Supercritical fluid chromatography of drugs: Parallel factor analysis for column testing in a wide range of operational conditions*”. Journal of Analytical Methods in Chemistry, **2017**, Volume 2017, Article ID 5340601, 1-13.
- 6) Bertyl Andri, Amandine Dispas, Roland D Marini, Philippe Hubert, Patrick Sassi, **Ramia Al Bakain**, Didier Thiébaud, Jérôme Vial, “*Combination of Partial Least Squares regression and Design of Experiments to model the retention of pharmaceutical compounds in Supercritical Fluid Chromatography*”. Journal of Chromatography A, **2017**, 1491, 182-194.
- 7) Ayman Issa, Yahya S. Al-Degs, Amjad H. El-Sheikh, Anas Y. Al-Reyahi, **Ramia Z. Al Bakain**, Jafar Abdelghani, Alan P. Newman, “*Application of Partial Least Squares-Kernel Calibration in Competitive*

- Adsorption Studies Using an Effective Chemically-Activated Biochar*”, Journal of Clean - Soil, Air, Water, **2017**, 45(4), 1-13.
- 8) Mohammad A. Al-Ghouti, Yahya S. Al-Degs, Ayman A. Issa, **Ramia Z. Al Bakain**, Majeda A. Khraisheh, “*Mechanistic and Adsorption Equilibrium Studies of Dibenzothiophene-Rich-Diesel on MnO₂-Loaded Activated Carbon: Surface Characterization*”, Journal of Environmental Progress and Sustainable Energy, **2017**, 36(3), 903-913.
 - 9) Yahya S. Al-Degs, Amjad H. El-Sheikh, **Ramia Z. Al Bakain**, Alan P. Newman, Mohammad A. Al-Ghouti, “*Conventional and Upcoming Sulfur Cleaning Technologies for Petroleum Fuel: A Review*”, Journal of Energy Technology, **2016**, 4 (6), 679–699.
 - 10) **Ramia Z. Al Bakain**, Samer R. Abulateefeh, Mutasem O. Taha, “*Synthesis and characterization of chitosan-lactate-phthalate and evaluation of the corresponding zinc- and aluminium-crosslinked beads as potential controlled release matrices*”, European Polymer Journal, **2015**, 73, 402-412.
 - 11) **Ramia Z. Al Bakain**, Yahya S. Al-Degs, Amjad H. El-Sheikh, and Sharif H. Arar, “*Spectrophotometric Determination of Melamine in Liquid Milk by Multivariate Second Order Calibration*”, Journal of Current Analytical Chemistry, **2016**, 12(1),74- 84.
 - 12) Ayman A. Issa, Yahya S. Al-Degs, Kholoud Mashal, **Ramia Z. Al Bakain**, “*Fast activation of natural biomasses by microwave heat*”. Journal of Industrial and Engineering Chemistry, **2015**, 21, 230-238.
 - 13) Rund Abu-Zurayk, **Ramia Z. Al Bakain**, Imad Hamadneh, Ammar Al-Dujaili, “*Adsorption of Pb(II), Cr(III) and Cr(VI) from aqueous solution by surfactant-modified diatomaceous earth: Equilibrium, kinetic and thermodynamic modeling studies*”, International Journal of Mineral Processing, **2015**,140, 79-87.
 - 14) **Ramia Z. Al Bakain**, Yahya S. Al-Degs, Amjad H. El-Sheikh, Anas Y. Al-Reyahi, Asma’a H. Abu-Wardeh, “*A Quick Detection of Melamine Adulteration in Milk and Dairy Products using First-Order Multivariate Calibration*”, Journal of food processing and preservation, **2015**, 39 (6), 2718-2727.
 - 15) Sharif H. Arar, Rasha A. Abu Eid, **Ramia Z. Al Bakain**, “*Titanium dioxide content in foodstuffs from the Jordanian market: Spectrophotometric evaluation of TiO₂ nanoparticles*”, International Food Research Journal, **2015**, 22(3): 1024-1029.
 - 16) **Ramia Z. Al Bakain**, Rund A. Abu-Zurayk, Imad Hamadneh, Fawwaz I. Khalili, Ammar H. Al-Dujaili, “*A study on removal characteristics of o-, m- and p-nitrophenol from aqueous solutions by organically modified diatomaceous earth*”, J. Desalination and Water Treatment, **2015**, 56(3), 826–838.
 - 17) **Ramia Z. Al Bakain**, Yahya S. AL-Degs, Ayman A. Issa, Saadi Abdul Jawad, Kayed A. Abu Safieh, “*Activation Of Kaolinite With Minimum Solvent Consumption By Microwave Heating*”, Journal Clay Minerals, December **2014**, v. 49(5), 667-681.
 - 18) Samer R. Abulateefeh, Mohammad A. Khanfar, **Ramia Z. Al Bakain**, and Mutasem O. Taha, “*Synthesis and characterization of new derivatives of alginic acid and evaluation of their iron(III)-crosslinked beads as potential controlled release matrices*”. Pharmaceutical Development and Technology, **2014**, 19(7): 856-867.
 - 19) **Ramia Al Bakain**, Qasem. M. Jaradat and Kamal. A. Momani, “*Indoor and Outdoor Heavy Metals Evaluation in Kindergartens in Amman, Jordan*”. Jordan Journal of Physics, V 5, Number 1, **2012**, 43-52.

- 20) **Ramia Al Bakain**, Isabelle Rivals, Patrick Sassiati, Didier Thiébaud, Marie-Claire Hennion, Guillaume Euvrard and Jérôme Vial, “*Impact of the nature of the set of the probe solute on orthogonality evaluation in reversed phase systems*”. Journal of Chromatography A. **2012**, 1232, 231-241.
- 21) **Ramia Al Bakain**, Isabelle Rivals, Patrick Sassiati, Didier Thiébaud, Marie-Claire Hennion, Guillaume Euvrard and Jérôme Vial, “*Comparison of different statistical approaches to evaluate the orthogonality of chromatographic separations: Application to reverse phase systems*”, Journal of Chromatography A, **2011**, 1218, 2963-2975.

Teaching Courses at the University of Jordan

- General Chemistry (0303101)- **BSc students**
- Laboratory of General Chemistry for non-Chemistry Students (0303109)- **BSc students**
- Laboratory of General Chemistry for Chemistry Students (0303106)- **BSc students**
- Analytical Chemistry (0333211)- **BSc students**
- Laboratory of Analytical Chemistry (0303216)- **BSc students**
- Instrumental Analysis (0343311) - **BSc students**
- Special topic in analytical Chemistry (0353411)- **BSc students**
- Chemistry Library Research 391- **BSc students**
- Advanced Environmental Chemistry (0333715) – **Master Students**
- Advanced Chromatography (0333913)- **PhD students**