

AHMAD A. GHARAIBEH

Work: Department of Applied Chemical Sciences
Jordan University of Science and Technology (JUST)
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EDUCATION

Ph. D. Applied Chemistry (1996): Colorado School of Mines (CSM)/USA.

Thesis: Supercritical Carbon Dioxide as a Chromatographic, Extraction, and Reaction Medium

Supervisor: Prof. Kent J. Voorhees

M. S. Analytical Chemistry (1984): University of East Anglia (UEA)/UK.

Thesis: Isotope Dilution Fast Atom Bombardment Mass Spectrometry for Iron Determination in Foods

Supervisor: Ron Self

B. S. Chemistry (Industrial Chemistry) (1976): University of Baghdad/Iraq.

EXPERIENCE: Teaching

1/2013 – to date: Associate Professor, JUST/Jordan
2/2010 – 6/2012: Senior Lecturer, JIC/KSA
9/2009 – 2/2010: Jerash Private University/Jordan
1999 – 2009: Assistant Professor, JUST/Jordan
1998 – 1999: Lecturer, JUST/Jordan
1996 – 1998: Lecturer, CSM/USA
1990 – 1996: Teaching Assistant, CSM/USA
1978 – 1983: Teaching Assistant, Yarmouk University/Jordan

Courses taught:

CSM: General Chemistry I and II (CHGN 121, CHGN 124)
CHGN 121 lab and CHGN 126 lab
JUST: General Chemistry I and II (CHEM 101, CHEM 102)
General Chemistry for Medical Students (CHEM 103)
Analytical Chemistry and its lab (CHEM 233, CHEM 234 lab)
Clinical Laboratory Instrumentation (LM 222)
Principles of Chemical Instrumentation and its lab (CHEM 336, CHEM 337 lab)
Methods of Chemical Analysis (CHEM 731)
Advanced Chemical Separation Methods (CHEM 732)

Experience: Non-Teaching

2000/2001: Assistant to the Dean of Faculty of Science and Arts, JUST/Jordan
1985 – 1990: In-charge of 80 MHz FT-NMR, GC/MS, Yarmouk University/Jordan

Research

Please see publications

AWARDS

2010/2011: Teaching Excellence Award, Jubail Industrial College/KSA
1991/1992: Outstanding Chemistry TA, Colorado School of Mines.

PUBLICATIONS

Ahmad A. Gharaibeh, Ala'a Al-Serinia, Rana M. Qasaymehb, Amani S. Ma'aya'hb, Khaled Tawahac, Tamam El-Elimatb,d, and Feras Q. Alalib. Liquid Chromatography-Mass Spectroscopy and Liquid Chromatography-Ultraviolet/Visible Photodiode Array Analysis of Selected *Colchicum* Species. *Z. Naturforsch.* **2012** 67c 451-460.

Ahmad A. Gharaibeh, Isam M. Arafa and Yaser A. Yousef. Multi-band broad Emission Properties of Fluoren-9-one Oxime Chemically and Physically Confined in a Photoactive Polyphenylsilsesquioxane Network Matrix. *J. Inorg Organomet Polym* **2011** 21:3 560-569 DOI 10.1007/s10904-011-9486-6.

Feras Q. Alali, **Ahmad A. Gharaibeh**, Abdullah Ghawanmeh, Khaled Tawaha, Amjad Qandil, Jason P. Burgess, Arlene Sy, Yuka Nakanishi, David J. Kroll, Nicholas H. Oberlies. Colchicinoids from *Colchicum crocifolium* Boiss. (Colchicaceae). *Natural Product Research* **2010** 24:2 152-159.

Adnan Massadeh, **Ahmed Gharaibeh**, Khaled Omari, Idrees Al-Momani, Ahmed Alomari, Haitham Tumah, Wail Hayajneh. Simultaneous Determination of Cd, Pb, Cu, Zn, and Se in Human Blood of Jordanian Smokers by ICP-OES. *Biol Trace Elem Res* **2010** 133 1-11. DOI 10.1007/s12011-009-8405-y.

Khaled M. Al-Qudah, **Ahmad A. Gharaibeh**, Maysa'a M. Al-Shyyab. Trace Minerals Status and Antioxidant Enzymes Activities in Calves with Dermatophytosis. *Biol Trace Elem Res* **2010** 136 40-47. DOI 10.1007/s12011-009-8525-4.

Ahmad A. Gharaibeh, Abdul-Wahab O. El-Rjoob, Mohammed K. Harb. Determination of selected heavy metals in air samples from the northern part of Jordan. *Environ Monit Assess* **2010** 160 425-429. DOI 10.1007/s10661-008-0706-7

Adnan M. Massadeh, **Ahmad A. Gharaibeh**, Khaled W. Omari. A Single-Step Extraction Method for the Determination of Nicotine and Cotinine in Jordanian Smokers' Blood and Urine Samples by RP-HPLC and GC-MS. *J. Chromatogr Sci* **2009** 47 170-177.

Feras Q. Alali, **Ahmad Gharaibeh**, Abdullah Ghawanmeh, Khaled Tawaha, Nicholas H. Oberlies. Colchicinoids from *Colchicum crocifolium* Boiss.: A Case Study in Dereplication Strategies for (-)-Colchicine and Related Analogues Using LC-MS and LC-PDA Techniques. *Phytochem Anal* **2008** 19:4 385-394. DOI:10.1002/pca. 1060.

Kent J. Voorhees, **Ahmad A. Gharaibeh**, B. Murugaverl. An Integrated SFE/SFC/MS System for the Analysis of Pesticides in Animal Tissues. *J Agric Food Chem* **1998** 46 2353-2359.

Ahmad A. Gharaibeh, Kent J. Voorhees. Characterization of Lipid Fatty Acids in Whole-Cell Microorganisms Using In Situ Supercritical Fluid Derivatization/Extraction and Gas Chromatography/Mass Spectrometry. *Anal Chem* **1996** 68 2805-2810.

Y. Yang, **A. Gharaibeh**, S. B. Hawthorne, D. J. Miller. Combined Temperature Modifier Effects on Supercritical CO₂ Extraction Efficiencies of Polycyclic Aromatic Hydrocarbons From Environmental Samples. *Anal Chem* **1995** 67 641-646.

B. Murugaverl, **A. Gharaibeh**, Kent J. Voorhees. Mixed Adsorbent for Cleanup During Supercritical Fluid Extraction of Three Carbamate Pesticides in Tissues. *J Chromatogr* **1993** 657 223-226.

A. A-R. Gharaibeh, J. Eagles, R. Self. Determination of Total Iron in Foods by Isotope Dilution Fast Atom Bombardment Mass Spectrometry. *Biomed Mass Spectrom* **1985** 12 344-357.

CONFERENCES

- 13th Rocky Mountain Regional Meeting of the ACS, June 9 - 12, 1996, Denver, CO
- 44th ASMS Conference on Mass Spectrometry and Allied Topics, May 12 - 16, 1996, Portland, OR
- 205th ACS National Meeting, March 28 - April 2, 1993, Denver, CO
- 34th Rocky Mountain Conference on Analytical Chemistry, August 2 - 6, 1992, Denver, CO

Workshops Attended

- Chemical Safety and Security Workshop, April 13-16, 2009, JUST/Jordan
- Modern University Instructional Methods, May 12th & 14th, 2008, JUST/Jordan
- 1D/2D Training Course on High Resolution Nuclear Magnetic Resonance, March 7-11, 2005, Bruker Biospin/Switzerland
- Training Course on High Resolution Nuclear Magnetic Resonance Spectrometer Service and Maintenance, March 14-18, 2005, Bruker Biospin/Switzerland
- Effective Teaching Using Modern Technology, September 30 - October 2, 2003, JUST/Jordan
- Designing a Faculty Development Program, June 18-21, 2001, JUST/Jordan
- Using the Internet in Teaching, September 18-22, 1999, JUST/Jordan

REFERENCES

Available upon request.