

Curriculum Vitae

Personal Information:

Name: Fuad Surname: Ababneh
Place and date of birth: Irbid-Jordan 29th Nov. 1968
Citizenship: Jordanian
Marital Status: Married.
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EDUCATION

-Ph.D (Analytical and Environmental Chemistry), Department of Chemistry, Ottawa University, Ottawa, Canada, December 2005.

Thesis: Application of Chemical Kinetics to Mercury Cycling in the Aquatic Environment: Photoreduction of Hg(II) and Binding of Hg(II) and MeHg⁺ to Natural Ligands.

-Master of Chemistry M.Sc, Department of chemistry, Yarmouk University, Irbid-Jordan.1994

Thesis: A Thermodynamic Study of the Association of K⁺ with some 18-Membered Ring Crown Ethers in Acetonitrile.

-Bachelor of Science "B.Sc in Chemistry" Department of chemistry, Yarmouk University, Irbid-Jordan,1990.

SCHOLARSHIPS, AWARDS

2001-2005 Admission Scholarship and Excellence Scholarship Award- Faculty of Graduate and Postdoctoral Studies, Ottawa University, Ottawa, Canada

WORK EXPERIENCE

RESEARCH ACTIVITY

2001-2005 Research Assistant
Department of Chemistry, Ottawa University, Ottawa, Canada

2000-2001 Research Assistant

Department of Chemistry, Carleton University, Ottawa, Canada

Worked for a project on trace metals speciation in freshwaters:

- Speciation and bioavailability of nickel in polluted freshwater, using Competitive Ligand Exchange Method and Graphite Furnace Atomic Absorption Spectroscopy.

1995-2000: Scientific Researcher: at the Environmental Research Center, Royal Scientific Society, Amman-Jordan.

I was responsible for the GC's and HPLC available in the Analytical laboratory.

- Establishing analytical methods for the determination of trace metals in environmental samples (waters, sediments, soils, biota etc) using optical (AAS, UV-VIS).
- Monitoring trace organic pollutants in soils and freshwater in different agricultural areas in Jordan) using chromatographic (GC-ECD, GC-MS and GC-FID) methods of analysis.
- Establishing and evaluating analytical methods for determination of organic pollutants in soil and water such as chlorinated pesticides, PCB's and herbicides using GC-MS, GC-ECD and HPLC.
- Analyzing various types of food samples such as fish, vegetable cooking oil, medical herbs, ointments....
- Supervising and training of other employees.

TEACHING ACTIVITY

2013-till date: **Associate** Professor, Dept. of chemistry, Al-Hussein Bin Talal University.

2006-2012: **Assistant Professor, Dept of Chemistry, Al-Hussein Bin Talal University**

I taught the following courses:

General Chemistry (I and II)
General Chemistry Lab (I and II)
Analytical Chemistry I
Analytical Chemistry II
Analytical Chemistry Lab
Environmental Chemistry
Instrumental Analysis I
Instrumental lab
Chemical Literature

2001- 2005: Teaching Assistant

Department of Chemistry, Ottawa University, Ottawa, Canada

- Teaching laboratories of Analytical Chemistry
- Teaching the laboratory of Environmental Chemistry.
- Teaching the laboratories of General and Organic Chemistry.

1993-1994: Teaching Assistant

Chemistry Department, Faculty of Science, Jordan University of Science and Technology

1991-1993: Teaching Assistant

Department of Chemistry, Yarmouk University, Irbid-Jordan

TRAININGS, CERTIFICATES

- Attended a course on **GC-MS** ChemStation, HEWLET PACKARD, London, United Kingdom, Jan 1996.
- Completed a course in **Food Additives**, University of Jordan, Amman, May 31 - July 4th 1997.
- Attended a seminar course in **Gas Chromatography (GC)**, PERKIN ELMER and Al-Zaytoonah Private University, Amman-Jordan, March 16-17, 1998.
- Attended a course in **High Performance Liquid Chromatography (HPLC)**, University of Jordan, Amman, April 28 to May 12, 1998.

CONFERENCES

- 1- Metals in the Environment Research Network (MITE), Annual Research Symposium, Crown Plaza, 101 Lyon Street, Ottawa, Ontario, Canada, February 27-28, 2001.
- 2- The sixth International Conference on the Biochemistry of trace elements, July 29 to Aug. 02, 2001. University of Guelph, Guelph, Ontario, Canada
- 3- COMERN "Collaborative Mercury Research Network" the 3rd general meeting, Keene, Ontario, Canada, November 4th to November 5th 2002.
- 4- Gordon Conference on Inorganic Chemistry" Inorganic Chemistry of Environmental Mercury " July 28 – August 2, 2002 .Salve Regina, University, Newport, RI.
- 5- COMERN "Collaborative Mercury Research Network" the 4th general meeting, Saint Andrews, New Brunswick, Canada, November 5th to November 7th 2003.
- 6- The 39th IUPAC Congress and the 86th Conference of the Canadian Society for Chemistry, Ottawa, Ontario, Canada, August 2003.
- 7- The 87th Canadian Chemistry Conference and Exhibition, London, Ontario, Canada, May 29- June 1st 2004.

Funded grants:

1- SRF: Speciation analysis of organometallic and inorganic compounds of mercury in water, fish and sediments of Gulf of Aqaba, Red sea. Scientific Research Support Fund (SRF), Ministry of Higher Education- JORDAN, Project No. S/1/04/2008 (grant value 107,400. JD ~ \$ 151,690), Period 2008-2010, Principal Investigator.

Professional Memberships:

- 1- American Chemical Society, 1998-1999
- 2- Canadian Chemical Society, 2004-2005
- 3- Jordanian Chemical Society, 2011-now

Research of interest:

- 1- Environmental fate(s) of organic pollutants especially the POP's.
- 2- Developing and validating new methods of analysis for various types of environmental contaminants.
- 3- Speciation analysis of heavy metal ions in water, air, soil and food.
- 4- Applications of photo-catalyst in treating some environmental pollutants.
- 5- Determination of hazardous species (toxic metals and trace organic residues) in food stuff and environmental species.

Other duties and services:

- 1- Assisting in the general maintenance of the laboratories at the department, e.g. equipment and also coordinating the Laboratory Research Meetings
- 2- I worked as the manager of the safety committee in the department of Chemistry at Al-Hussein bin Talal University
- 3- I worked as the head of the scientific research committee in the department of Chemistry at Al-Hussein bin Talal University
- 4- I was the **external examiner** for two M.Sc thesis in Chemistry at Mutah University (2009 and 2012)
- 5- Undergraduate project supervision (I supervised more than 12-undergraduate B.Sc research)
- 6- Assisted in coordinating B.Sc chemistry program and reviewing students' progress.

Peer-Reviewed Publications:

1. Khalid, M. T; **Fuad, A. A.**, “ Conductance study of the binding of K^+ by dibenzo-pyridino -18-crown-6 in acetonitrile” *J. Incl. Phen. Recog. Chem.* 29 (1), 15-22, **1997**.
2. **Fuad A. Ababneh**, Susannah L. Scott, Hassan A. Al-Reasi, David R. S. Lean " Photochemical reduction and reoxidation of aqueous mercuric chloride in the presence of ferrioxalate and air” *Science of the Total Environment*. 367 (2-3), 831-839, **2006**.
- 3- Hassan Al-Reasi, **Fuad Ababneh**, David Lean "Evaluating Mercury Biomagnification in Fish from a Tropical Marine Environment Using Stable Isotopes ($\delta^{13}C$ and $\delta^{15}N$) " *Environmental Toxicology and Chemistry*, 26(8), 1572–1581, **2007**
- 4- M. Al-Harashsheh, S. Kingman, C. Somerfield, **F. Ababneh** " Microwave-assisted total digestion of sulphide ores for multi-element analysis", *Analytica Chimica Acta*, 638, 101-105, **2009**.
- 5- Wedyan, M.A., **F.A. Ababneh** and S. Al-Rousan " The Correlations between mercury speciation and dissolved organic matter in the sediment of the Red sea", *American Journal of Environmental Science*, 8 (4), 403-411. **2012**.
- 6- **Fuad A. Ababneh** and Idrees F. Al-Momani " Levels of mercury, cadmium, lead and other selected elements in canned tuna fish commercialized in Jordan", *International Journal of Environmental Analytical Chemistry*, 93(7), 755-766, **2013**.
- 7- **Fuad A. Ababneh** , "Assessments of Selected Essential Elements in Canned Tuna Marketed in Jordan", *Asian Journal of Chemistry*, 25(2), 1057-1062, **2013**.
- 8- **Fuad A. Ababneh**, Khalil Abu-Sbieh and Idreese F. Al-Momani" Evaluation of allergenic metals and other trace elements in personal care products", *Jordan Journal of Chemistry*, 8(3), 179-190, **2013**
- 9- **Fuad, A. Ababneh** and Idrees, F. Al-Momani "Evaluation of Residual Amounts of Persistent Organic Pollutants and Traces of Heavy Metals in King Talal Dam"

Research Journal of Pharmaceutical, Biological and Chemical Sciences, 5(5), 1121-1128, **2014**.