

Bassam F. Alfarhani

Analytical and Environmental Chemist

ORCID <https://orcid.org/0000-0002-5031-8549>

Work address

University of Al-Qadisiyah, college of sciences, Dep. Of Chemistry Diwaniah city, Iraq

Bfa1981@knights.ucf.edu

Bassam.alfarhani@qu.edu.iq

+9647825050985

EDUCATION

UNIVERSITY OF CENTRAL FLORIDA

Orlando, FL | 2012 – 2016

PhD, Chemistry

Professor Andres. D. Campiglia
Analysis Of Benzopyrenes And
Benzopyrene Metabolites By
Fluorescence Spectroscopy
Techniques

AL-NAHRAHIN UNIVERSITY

Baghdad, Iraq | 2003 – 2005

B.Sc in Chemistry

AL-NAHRAHIN UNIVERSITY

Baghdad, Iraq | 2005 – 2008

Master of Science in Chemistry

Professor Shabaz A. Makki
Natural products extraction and
quantification

WORK EXPERIENCE

Adjunct Research Scholar

University of Al-Qadisiyah, Iraq
Environmental research Center
Yuan Research Group
December 2005-July 2007

Devised a convenient method toward quantification of pollutants in environmental samples

Teaching position

University of Al-Qadisiyah, Iraq
Department of Chemistry
2006-till now

Undergraduate coordinator

2016-till now

GRADUATE RESEARCH EXPERIENCE

PH. D. DEGREE (SPRING 2012- SPRING 2016)

UNIVERSITY OF CENTRAL FLORIDA, ORLANDO, FL

Advisor: Prof. Andres D. Campiglia

- My research efforts are focused on the development of advanced spectroscopic techniques for the analysis of compounds of environmental, forensic, clinical, toxicological and biological interest.
- Acquired strong technical expertise in chromatography-based separation (HPLC, GC, LC-MS, GC-MS, TLC, column chromatography) and mass spectrometry-based detection.
- Achieved excellent hands-on skills in analytical techniques (UV-VIS, FT-IR, fluorescence spectroscopy), in-depth understanding of the basic principles underlying these techniques.

MASTERS OF SCIENCES (2003-2005)

UNIVERSITY OF ALNAHRAIN, BAGHDAD, IRAQ

Advisor: Prof. Shabaz A. Maki

Developed a method for atropine detection in Iraqi plants

PUBLICATIONS

- 1- Walter B. Wilson, Bassam Alfarhani, Anthony F. T. Moore, Cristina Bisson, Stephen A. Wise, Andres D. Campiglia “Determination of high-molecular weight polycyclic aromatic hydrocarbons in high performance liquid chromatography fractions of coal tar standard reference material 1597a via solid-phase nanoextraction and laser-excited time-resolved Shpol'skii spectroscopy”, *Talanta*. 148 (2016) 444–453
- 2- Bassam Alfarhani, Maha Al-tameemi, Agustina V. Schenone, Hector C. Goicoechea, Fernando Barbosa Jr., Andres D. Campiglia Room temperature fluorescence spectroscopy of benzo[a]pyrene metabolites on octadecyl extraction membranes “*Microchemical Journal* 129 (2016) 83–89.
- 3- Bassam Alfarhani, Maha Al-Tameemi, Hector C. Goicoechea, Fernando Barbosa Jr, Andres D. Campiglia, Direct analysis of benzo[a]pyrene metabolites with strong overlapping in both the spectral and lifetime domains. *Microchemical Journal* 137 (2018) 51–61
- 4- BASSAM ALFARHANI Analysis of Acrylamide Levels in Various Food Types in the Iraqi Markets Using Chromatography Techniques, *in press*
- 5- Hasan M. Luaibi, Bassam F. Alfarhani, Muqdad Irhaem Kadhim, Detection of Fe(III) levels via two different spectrophotometric methods in Diwaniah city/ Iraq, *in press*

- 6- Bassam F. Alfarhani, Hasan M. Luaibi, Rana A.Hammza, Comparative Assessment Of Catechin And Gallic Acid Content In Different Brands Of Black And Green Tea, *In press*
- 7- Alaa Abbas Fadhel, Maha Al-Tameemi , Bassam Faron Alfarhani Biochemical investigation in blood serum of female patients in type-2 diabetes, *in press*
- 8- Alaa Abbas Fadhel, Bassam Faron Alfarhani, Assessment of some Biochemical blood abnormalities for labors of diesel electric generators, *in press*
- 9- Bassam F. Alfarhani, Zainab N.Abdullah , Abbas J. Kadhum , Determination of Oxidative Stress and Antioxidant System in Chronic Obstructive Pulmonary Disease (COPD, Journal of Kerbela University, 7 (9) 2009
- 10- Bassam Faron Alfarhani, Determination the optimum conditions to extract sodium benzoate that used as food additives and estimation it's level in some local beverages. Journal of Thi-Qar Science, 2(2) 2010
- 11- Bassam Alfarhani, Faiq F. Karam, Ihsan Raisan Effect of the pollution produced by generators in some biochemical parameters in workers, Journal of Al-Qadisiyah for pure science 11, 2006

C O N F E R E N C E S

- 1- Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy (PITTCON), Chicago, Illinois, March 2 – 6, 2014. Laser Excited Time Resolved Shpol'skii-spectroscopy for the analysis of Higher Molecular weight polycyclic aromatic hydrocarbon isomers. Bassam Alfarhani, W.B. Wilson, C.B. Bisson and A. D. Campiglia. Abstract book 520-1P, p.44.
- 2- The 90th Florida Annual Meeting and Exposition (FAME 2014), Palm Harbor, FL, May 8 – 10, 2014. Higher Molecular Weight Polycyclic Aromatic Hydrocarbons: A Challenging analytical task in environmental analysis. Bassam Alfarhani, W.B. Wilson, C.B. Bisson and A. D. Campiglia. p.27.
- 3- The 248th ACS National Meeting, San Francisco, California, August 10-14, 2014. Analysis of High Molecular Weight Polycyclic Aromatic Hydrocarbon Isomers via Shpol'skii Spectroscopy at Liquid Helium Temperatures. Bassam Alfarhani, A.T. Moore, W.B. Wilson and A.D. Campiglia. Abstract book ANYL.248, p. 92
- 4- The 248th ACS National Meeting, San Francisco, California, August 10-14, 2014. Development of a green analytical method for the determination of polycyclic aromatic hydrocarbons in river water samples. W.B. Wilson, U.Hewitt, M, Bassam Alfarhani and A.D. Campiglia. Abstract book ANYL.244, p. 92.
- 5- The joint southeast and southwest regional ACS meeting (71st SWRM/67th SERMACS), Memphis, Tennessee, November 4 – 7, 2015. Solid-phase extraction-77K Laser Excited Time Resolved spectroscopy for the analysis of Benzo[a]pyrene

- metabolites in urine samples. Bassam Alfarhani, M. Al-tameemi and A. D. Campiglia. Abstract book 149, p.61
- 6- The Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy (PITTCON), Atlanta, Georgia, March 6-10, 2016. Rapid Determination of Endocrine Disrupting Bisphenol A (BPA) in Drinking Water by Solid Phase Nano-Extraction and Room-Temperature Fluorescence Spectroscopy. Maha Al-tameemi, Bassam Alfarhani, J. Seok and A. D Campiglia. Abstract book 1120-22P, p. 45
- 7- The 89th Florida Annual Meeting and Exposition (FAME 2013), Palm Harbor, FL, May 9 – 11, 2013. Shpol'skii Spectroscopy Analysis of High-Molecular Weight Polycyclic Aromatic Hydrocarbons in HPLC fractions. Bassam Alfarhani, W.B. Wilson and A. D.Campiglia. p.22.

FUNDING PROJECTS AND GRANTS

- 1- CSP grant, US department of state, Chemical security training program to enable experts from Iraq to learn about the security protective measures in their work places, \$13,0000
- 2- CSP grant, US department of stat, \$32,000
- 3- CSP grant, US department of state \$47,000

-
- 1- CSP grant, US department of state, Chemical security training program to enable experts from Iraq to learn about the security protective measures in their work places, \$13,0000
 - 2- CSP grant, US department of stat, \$32,000
 - 3- CSP grant, US department of state \$47,000