FOUAD FADHIL AL-QAIM

11 MAY 2021

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DATE OF BIRTH

24 April 1978

EDUCATION

2017-2019 Post-doctorate, Malaysia-Japan International Institute of Technology, Universiti Teknologi Malaysia (UTM), Malaysia
2010-2015 PhD (Analytical and Environmental Chemistry) Universiti Kebangsaan Malaysia (UKM) , Malaysia
2002-2005 MSc. (Physical Chemistry) University of Babylon, Hilla, Iraq
1996-2000 BSc (Chemistry) University of Babylon, Hilla, Iraq

WORKING EXPERIENCE

2017-2019 Postdoctoral Fellowship in Malaysia-Japan International Institute of Technology (MJIIT-UTM, Malaysia).
2017-current Member in Water Analysis and Research (ALIR/UKM, Malaysia).
2006-current Associate Professor, Dr. Lecturer, University of Babylon, Iraq.
2011-2015 Research assistant of Water analysis monitoring under Water analysis and Research (ALIR), School of Chemical Sciences and Food Chemistry, FST, UKM, Malaysia.
2013-2018 Co-Supervisor to PhD student, Khitam Jaber (matric No. P67324), UniversitiKebangsaan Malaysia.

2013-2018	Co-Supervisor to PhD student, NurAuni Zainal Abidin (matric No. P81141), UniversitiKebangsaan Malaysia.
2011-2013	Co-Supervisor to Masters Student, SitiHasma Binti Jusof (matric No. P68964), UniversitiKebangsaan Malaysia.
2006-2010	Lecturer, University of Babylon, Hilla, Iraq

POSITION

2020-CURRENT DIRECTOR OF SCIENTIFIC AFFAIRS/ UNIVERSITY OF BABYLON

MARITAL STATUS

Married to Zainab Mussa (PhD student/ analytical chemistry from Universiti Kebangsaan Malaysia), 2 children

RESEARCH FIELD

Analytical and Environmental Chemistry dealing with analysis of pharmaceuticals in surface water and wastewater using liquid chromatography-time of flight/ mass spectrometry (LC-TOF/MS). As a result of detection of these pharmaceutical compounds in water samples, treatment of these pollutants is necessary. However, electrochemical treatment process as clean technology was applied for this purpose.

No. Publications: 30 papers, h-Index (Scopus) 9, h-Index (WOS) *7*

Google scholar website:
https://scholar.google.com/citations?user=5mkMeR4AAAAJ&hl=en&oi=sra

Scopus profile website:
https://www.scopus.com/authid/detail.uri?authorId=55520360200

PUBLICATIONS

Mussa Z.H., **Al-Qaim F.F.**, Yuzir A. Shameli K.. 2021.
Photocatalytic removal of Malachite green and Brilliant blue dyes from its aqueous solution: A case study of factorial experimental design. Journal o the Mexican Chemical Society 65(2) 1-9. **(ISI, Q4).**

Mussa Z.H., **Al-Qaim F.F.**, Yuzir A. Shameli K.. 2020.
Electrochemical degradation of metoprolol using graphite-PVC composite as anode: Elucidation and characterization of new by-products using LC-TOF/MS. Journal o the Mexican Chemical Society 64(3) 1-16. **(ISI, Q4).**

Mussa Z.H., **Al-Qaim F.F.**, Yuzir A. Jalifah L. 2019.
Electro-transformation of mefenamic acid drug: A case study of kinetics, transformation products and toxicity. Environmental Science and Pollution Research. 26(10) 10044-10056. **(ISI, Q1).**

Al-Qaim F.F., Mussa Z.H., Yuzir A., Abu Tahrim N., Hashim N.Azman S. 2018.
Transformation of different therapeutic classes of pharmaceuticals to the surface water, sewage treatment plant and hospital samples, Malaysia. Water, 10, 916-932. **(ISI, Q2).**

Mussa Z.H., **Al-Qaim F.F.**, Yuzir A., Hara H., Azman S., Chelliapan S. 2018.
Transformation of different therapeutic classes of pharmaceuticals to the surface water, sewage treatment plant and hospital samples, Malaysia. Catalysts, 8, 540-553. **(ISI, Q2).**

Al-Qaim F.F., Mussa Z.H., Yuzir A. 2018.
The fate of prazosin and levonorgestrel after electrochemical degradation process: Monitoring by-products using LC-TOF/MS. Journal of Environmental Sciences, 74, 134-146. **(ISI, Q1).**

Al-Qaim F.F., Mussa Z.H., Yuzir A., Latip J., Othman M.R. 2018.
Development and validation of a comprehensive solid phase extraction method followed by LC-TOF/MS for analysis of eighteen pharmaceuticals in influent and effluent of sewage treatment plants. Analytical and Bioanalytical Chemistry, 410(20), 4829-4846. **(ISI,Q1)**

Al-Qaim F.F., Mussa Z.H., Yuzir A., Abdullah Md.P., Othman M.R. 2018.
Full factorial experimental design for carbamazepine removal using electrochemical process: A case study of scheming the pathway degradation. Journal of the Brazilian Chemical Society, 29(8), 1721-1731. **(ISI, Q3).**

Al-Qaim F.F., Yuzir A., Mussa Z.H. 2018.
Determination of theobromine and caffeine in some malaysian beverages by liquid chromatography-time-of-flight mass spectrometry. Tropical Journal of Pharmaceutical Research 17 (3), 529-535. **(ISI, Q4).**

Zainul N. A., Abdullah Md.P., **Al-Qaim F.F.**, Afiq W. M., Othman M.R., 2018.
Assessing stir bar sorptive extraction for triazine herbicides extraction by using a central composite design approach. Malaysian Journal of Analytical Sciences 22 (1). **(Scopus).**

Al-Qaim F.F., Jusof S.H., Abdullah Md.P., Othman M.R. Mussa Z.H. 2017.
Solid phase extraction method for analysis of caffeine residue in surface waters using HPLC. Malaysian Journal of Analytical Sciences 21 (1). **(Scopus).**

Mussa Z.H., **Al-Qaim F.F.**, Othman M.R., Abdullah Md.P., Latip J., Zakaria Z. 2017.

Pseudo first order kinetics and proposed transformation products pathway for the degradation of diclofenac using graphite-PVC composite as anode. Journal of the Taiwan Institute of chemical engineers. 72, 37-44. **(ISI, Q1).**

Mussa Z.H., **Al-Qaim F.F.**, Abdullah Md.P., Othman M.R. 2016. Determination of prazosin and simvastatin in landfill leachate using liquid chromatography-time of flight –massspectrometry. *Malaysian Journal of Analytical Sciences* 20 (4). **(Scopus).**

Mussa Z.H., **Al-Qaim F.F.**, Abdullah Md.P., Othman M.R. 2016. Removal of simvastatin from aqueous solution byelectrochemical process using graphite-PVC as anode: A case study of evaluation the toxicity, kinetics and chlorinatedby-products. *Journal of Environmental Chemical Engineering* (4)3338-3347. ***(Scopus)*.**

Al-Qaim F.F., Abdullah Md.P., Othman M.R. &Latip J. 2016.Detection of a Diabetic Drug (Gliclazide) in AqueousSamples Using Liquid Chromatography /Time-of-Flight/MassSpectrometry. *Sains Malaysiana* 45 (5): 803-810. **(ISI, Q3).**

Afiq W.M., Abdullah Md. P., **Al-Qaim F.F.**, Othman M.R.& Farina Y. 2015. Optimization and validation of solid-phasemicroextraction of mercury species: An application ofexperimental design. *Asian Journal of Chemistry* 27(10):3803-3808. **(Scopus).**

Afiq W.M., Abdullah Md.P. & **Al-Qaim F.F.** 2015.Chemometric Application on Surface River WaterQuality: A Case Study of Linggi River, Malaysia. *Iranica Journal of Energy & Environment* 6(1): 26-33. **(Scopus).**

Al-Qaim F.F., Mussa Z.H. Othman M.R. & Abdullah Md.P.2015. Removal of caffeine from aqueous solution by electrochemical oxidation using a graphite-PVC compositeelectrode. *Journal of Hazardous Materials* 300: 387-397. **(ISI, Q1).**

Al-Qaim F.F., Abdullah Md.P., Othman M.R. Mussa Z.H.,Zakeria Z., Latip J. &Afiq W.M. 2015. Investigation theenvironmental transport of human pharmaceuticals tosurface water: A case study of persistence ofpharmaceuticals in effluent of sewage treatment plants andhospitals, Malaysia. *Journal of the Brazilian ChemicalSociety* 26: 1124-1135. **(ISI, Q3).**

Al-Qaim F.F., Abdullah Md.P., Othman M.R., Latip J. &AfiqW.M. 2014. A Validation Method Development forSimultaneous LC-ESI-TOF/MS Analysis of SomePharmaceuticals in Tangkas River-Malaysia. *Journal of TheBrazilian Chemical Society* 25: 271-281. **(ISI, Q1).**

Al-Qaim F.F., Abdullah Md.P., Othman M.R., Latip J. &AfiqW.M. 2014. Development and validation of HPLC analyticalassay method for

mefenamic acid (PONSTAN).*International Journal of Chemical Sciences* 12:62-72.

Al-Qaim F.F., Abdullah Md.P., Othman M.R., Latip J. &Zakeria, Z. 2014. Multi-residue analytical methodology-basedliquid chromatography- time-of-flight-mass spectrometry forthe analysis of pharmaceutical residues in surface water andeffluents from sewage treatment plants and hospitals. *Journal of Chromatography A* 1345:139-153. **(ISI, Q1).**

Afiq W.M., Abdullah MD. P., **Al-Qaim F.F.** &YasinY.Md.2014. Adsorption study of mercury species from aqueoussolution using thiocarbamoyl chitosan. *International Journalof Chemical Sciences* 12: 1095-1108. **(SCOPUS)**

Al-Qaim F.F., Abdullah Md.P., Othman M.R., Latip, J. &AfiqW.M. 2013. Development of Analytical Method for Detectionof Some Pharmaceuticals in Surface Water. *TropicalJournal of Pharmaceutical Research* 12: 609-616. **(ISI, Q4).**

Al-Qaim F.F., Abdullah Md.P. & Othman M.R. 2013. Multi-residue analysis method for analysis of pharmaceuticalsusing liquid chromatography-time of flight/mass spectrometry(LC-TOF/MS) in water sample. *AIP ConferenceProceedings*1571: 806-811. (Proceedingdoi:10.1063/1.4858754).

Al-Qaim F.F., Abdullah Md.P., Othman M.R., Zakeria Z. &Latip J. 2012. Different Mobile Phases and Elution Programswere Optimized to Separate seven Basic Pharmaceuticalsusing LC-QTOF/MS. International *Journal of Biological,Ecological and Environmental Sciences* 1: 72-76.

Al-Qaim F.F., Abdullah Md.P., Othman M.R. &Zakeria, Z.2012. SPE- LC- Mass Spectrometry Analysis for BasicPharmaceuticals with Different Therapeutic Classes inAquatic Environment: A review. *Journal of Applied ScienceResearch* 8 (4): 2124-2132. **(SCOPUS)**

Al-Qaim F.F., Abdullah Md.P. & Othman M.R. 2012.Analysis of different therapeutic classes using liquidchromatography-mass spectrometry in aquatic environment:A review. International *Journal of Pharmacy andPharmaceutical Sciences* 4: 3-11. (SCOPUS)

Al-Qaim F.F., Abdullah Md.P., Mehdi A. &Baseem M. 2011.Photoremoval of Malachite Green (MG) using AdvancedOxidation Process. Research *Journal of Chemistry andEnvironment* 15: 65-70. **(ISI, Q4).**

REVIEWER APPOINTMENT

- Environmental Research-Journal. (Q1, impact factor = 3.835)

- Journal of Chromatography A. (Q1, impact factor = 3.981)

-Chiang Mai Journal of Science. (Q1, impact factor = 4.529)

- Environmental Technology. (Q3, impact factor = 1.751)

-Journal of Environmental and Chemical Engineers. (Q4, impact factor = 0.437)

-Journal of Hazardous Material. (Q1, impact factor=6.434)

-Journal of Separation Science. (Q2, impact factor = 2.415)

- Science of the Total Environment. (Q1, impact factor = 4.900)

- Food chemistry (Q1, impact factor = 4.529)

THESES

Al-Qaim F.F. 2015. Multi-residue analytical methodology based on liquid chromatography-time of flight-mass spectrometry for the analysis of pharmaceutical residues in aquatic sample. PhD Thesis. UniversitiKebangsaan Malaysia.

Al-Qaim F.F. 2005. Study photodegradation of tetradecane in hexane as a solvent in the presence of TiO_2 using UV-visible spectroscopy. Master-Thesis. University of Babylon.

ORAL PRESENTATIONS

Zakaria Z., **Al-Qaim F.F.**, Mussa Z.H., Latip J., Yuzir A. Electrochemical remediation of prazosin using Graphite-PVC composite as anode. International Congress on Pure and Applied Chemistry (ICPAC. 7-10th March 2018, Sokhalay Angkor Resort and Spa, Siem Reap, Cambodia.

Al-Qaim F.F. Electrochemical Remediation of prazosin using graphite-PVC composite as anode. International Congress on Pure and Applied

Chemistry 7-10th March 2018. Siem Reap Cambodia.

Al-Qaim F.F. Risk occupational of hazardous materials. The first national CB security coordination conference.17th-16th April 2016. Green Zone-Baghdad, Iraq.

Al-Qaim F.F., Abdullah Md.P. & Othman M.R. Multi-residueanalytical methodology based on liquid chromatography-quadrupole time-of-flight-mass spectrometry (LC-QTOF/MS)of pharmaceuticals in surface water and hospitals fromNegeri Sembilan, Malaysia. The 26th Regional Symposiumof Malaysia Analytical Sciences (SKAM26) November 2013 .Sarawak, Malaysia.

Al-Qaim F.F., Abdullah Md.P. & Othman M.R. Multi-residueanalysis method for analysis of pharmaceuticals using liquidchromatography-time of flight/mass spectrometry (LC-TOF/MS) in water sample. 13th Postgraduate Colloquium. 3th-4th July .2013 UniverisitiKebangsaan Malaysia, Malaysia.

Al-Qaim F.F., Abdullah Md.P. & Othman M.R. Detection of some pharmaceuticals in Malaysian aquatic environmentusing liquid chromatography-quadrupole-time-of-flight/massspectrometry (LC-ESI-QTOF/MS). InternationalConference on Water and Wastewater Management (ICWWM 2013) 8th-10th October2013. PWTC, Kuala Lumpur, Malaysia.

Al-Qaim F.F., Abdullah Md.P. & Othman M.R. Optimizationmobile phase and elution program to separate seven basicpharmaceuticals using LC-QTOF/MS. InternationalConference on Applied Chemistry and PharmaceuticalSciences (ICACPS 2012) 19th-20th May 2012 Penang, Malaysia.

POSTER PRESENTATION

Al-Qaim F.F., Abdullah Md.P. & Othman M.R. Physico-chemical analysis of Linggi River in Negeri Sembilan,Malaysia. The International Symposium on Environmentand Natural Resources (ISENAR 2011) 15th- 17th November 2011. Bangi-Putrajaya, Malaysia.

Al-Qaim F.F., Abdullah, Md. &Rozali Othman, M.Optimization Collision Energy to Enhance Intensity for ThreePharmaceutically Active Compounds Carbamazepine,Nifidepine and Simvastatin Using LC-QTOF/MS. 17thMalaysian Chemical Congress (17MCC) 2012
15th-17th October 2012. PWTC, Kuala Lumpur, Malaysia.

PARTICIPATION IN SEMINAR/WORKSHOPS

Modern mass spectrometry introduction, 19th-2th December 2011. Centre of Research and Innovation Management, CRIM, UniversitiKebangsaan Malaysia, Malaysia.

A workshop on water sampling and analysis, 10th-14th October 2011 PulauLangkawi, Kedah, Malaysia.

Sample preparation and LC column separation,23th April 2012 IT TechResearch (M) SdnBhd, Malaysia.

Certificate Appreciation for participating in Malaysia 3 MT competition 2014. UniversitiKebangsaan Malaysia, Malaysia.

Expedition scientific Langkawi 2014: 23th -25th October 2014. Gunung Raya, Malaysia.

Principles of LC-TOF/MS and its applications,August 2014, UniversitiKebangsaan Malaysia