

## Dr. MAHA KADHIM AI-TAMEEMI

Department of Chemistry  
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University of Baghdad  
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[mahaks\\_chem@cs.w.uobaghdad.edu.iq](mailto:mahaks_chem@cs.w.uobaghdad.edu.iq)

### PROFESSIONAL SUMMARY

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- Over 18 years of experience in analytical method development and validation for performing qualitative and quantitative analysis.
- Highly proficient with spectroscopic techniques such as Fluorescence, UV-Vis, and Chromatographic techniques such as HPLC (normal/reverse phase – Agilent and Waters systems) and GC-MS.
- Capable of independently troubleshooting and improving analytical methods, designing and executing experiments; along with the extraction, interpretation and data analysis. Able to multi-task and deliver multiple projects and targets simultaneously.
- Very dedicated and hardworking individual, who enjoys a fast-paced, team-oriented, and collaborative environment.

### HIGHLIGHTS

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- **Chromatography:** HPLC, LC-MS, GC-MS, TLC, Ion, Column.
- **Spectroscopy:** UV-Vis, Fluorescence, Phosphorescence, FTIR.
- **Extraction:** Liquid-Liquid extraction, Solid phase extraction, Solid-Phase Nano-Extraction.
- **Softwares:** Origin-Pro, ChemDraw, SciFinder, Microsoft Office and Endnote.

### EDUCATION

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- Ph.D. Analytical Chemistry – University of Central Florida, Orlando, UAS (2017)
- M.S. Analytical Chemistry – University of Baghdad, Baghdad, Iraq (2007)
- B.S. Chemistry – University of Baghdad, Baghdad, Iraq (2001)

## **EXPERIENCE**

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### **Instructor -University of Baghdad/College of Science for Women/Chemistry Department July 2002 - till now**

- Instructor for undergraduate analytical chemistry courses the main core of the analytical chemistry curriculum at University of Baghdad consists of three undergraduate courses (Analytical chemistry for First and second stage, Instrumental analysis for fourth stage. All undergraduate majors in both Chemistry. Each undergraduate course is divided in two components, lecture and laboratory.
- Lab coordinator and instructor for undergraduate analytical laboratory for 12 years, some techniques and instrumentation taught include titrations, extraction, absorbance spectroscopy, UV/Vis, HPLC, IR analysis of samples, etc.

### **Graduate Research Assistant – University of Central Florida 2017**

**Jan 2015 – Dec**

- Determination of high molecular weight polycyclic aromatic hydrocarbons (PAHs) and sulfur polycyclic aromatic hydrocarbons in the oil spills from Gulf of Mexico oil spills and detection paired with fluorescence-spectroscopy, further implementing chemometric softwares for statistical interpretation and quantitation of analytes.
- Extensive research experience on molecular spectroscopy techniques, including operation, maintenance and troubleshooting of UV-Vis absorption, fluorescence and phosphorescence spectroscopy.
- Assisted new graduate and undergraduate students with handling instrumentation during initial stages of their assigned projects and mentoring, preparing them for technical conferences.
- Experienced with troubleshooting and improving analytical methods, designing and executing experiments; along with the extraction, interpretation and analysis of analytical data.
- As a very dedicated and hard-working individual, enjoying a fast-paced, team-oriented, and collaborative environment – I collaborated with different professors with completing research projects and also trained incoming undergraduates with lab work and publishing articles.

- Demonstrated proficiency in sample preparation techniques (Extraction, Liquid-liquid extraction, Solid phase extraction, Solid-Phase Nano-Extraction, Titrations, TLC, Rotary evaporation, Dilutions, Purification and Recrystallization).

## PUBLICATIONS

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### Journal articles:

- 1-Bassam Faron Alfarhani, **Maha Al-Tameemi**, Alaa Abbas Fadhel, Rana A Hammza, Muqdad I Kadhem, Endocrine disrupting Bisphenol A detection in different water samples in Iraq. *Journal of Physics: Conf. Series*, 2019 1294, 052045.
- 2- Olga Monago-Maraña, Arsenio Muñoz de la Peña, **Maha Al-Tameemi**, Teresa Galeano-Díaz and Andres C Campiglia. Feasibility of multidimensional fluorescence at low temperature in Shpol'skii matrices combined with PARAFAC for the quantitation of polycyclic aromatic hydrocarbons, *International Journal of Experimental Spectroscopic Techniques*, 2018, 3(022), 1-11.
- 3- **M. Al-Tameemi**, S. Arif, A. D. Campiglia, W. B. Wilson, S. A. Wise. Photoluminescence Spectroscopy of Anthra-thiophenes and Benzonaphtho-thiophenes in Shpol'skii Matrixes. *Talanta*, 2019, 194, 930-940.
- 4- Alaa Abbas Fadhel, **Maha Al-Tameemi**, Bassam Faron Alfarhani, Biochemical investigation in blood serum of female patients in type-2 diabetes; *Journal of Global Pharma Technology*, 2018,10, 369-373.
- 5- 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, *Micro-Chemical Journal*, 2018, 137, 51-61.

6- B. A. Rocha, B. R. Brandao da Costa, N. C. Perez de Albuquerque, A. R. Moraes de Oliverira, J. M. O. souza, **M. Al-Tameemi**, A. D. Campiglia, F. Barbosa Jr, A fast method for bisphenol A and six analogues (S, F, Z, P, AF, AP) determination in urine samples based on dispersive liquid-liquid microextraction and liquid chromatography-tandem mass spectrometry. *Talanta*, 2016, 154, 511-519.

7- B. Alfarhani, **M. Al-tameemi**, A. V. Schenone, Hector C. Goicoechea, A. D. Campiglia, Room temperature fluorescence spectroscopy of Benzo[a]pyrene metabolites on octadecyl extraction membranes, *Micro-chemical Journal*, 2016, 129, 83–89.

8- M.F.Alis, **M.K.Salman**, S.M.Khamas, Synthesis structure and Biological activity of Cd (II), Cr (III), Mn (II), and Hg (II) complexes of 2-N (4, N, N-dimethylbenzyliden) 5(P-methoxy phenyl) 1,3,4 – thiodiazole. *Journal of Al –Nahrain university*, 12, 2009, 54-61.

9- **Maha kadhim salman**, Spectrophotometric determination of salbutamol sulphate in bulk and in pharmaceutical formulations, *Baghdad science Journal*, 2010, 7, 713-720.

10- Saadiyah A. Dhahir, Amara H. Hmed, **Maha K. Salman**, Rafah K. Ahmed, Safety method, spectrophotometric determination of sulfamethaxazole drug in bulk and pharmaceutical preparations, *Baghdad science Journal*, 2010, 7, 607-613.

### **In press:**

1- Hawraa M. Abdulkareem, **Maha Al-Tameemi**, Israa H. Ibraheem, Muna Sameer Hadi  
Surfactant cloud point extraction as a procedure of preconcentrating for Metoclopramide determination using Spectro analytical technique.

2- **Maha AL-Tameemi**, Hawraa Abdulkareem, Mohanad L. Tofah, Mishaal A. Abdullh, Mothna M.Ziadan, Mahmood SH. Mahmood. Development and Validation of RP-HPLC Method Analysis for Paracetamol and Homatropine Methyl Bromide in Riabasam Tablet.

3- Abbas Shebeeb H. Al-kadumi, **Maha Al-Tameem**, Hawraa Mahmood Abdulkareem

Molecular, atomic absorption, FTIR Spectrophotometry, and HPLC methods for determination of amoxicillin.

## CONFERENCES

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**1-** Endocrine disrupting Bisphenol A detection in different water samples in Iraq, Bassam Faron Alfarhani, Maha Al-Tameemi, Alaa Abbas Fadhel, at the 2<sup>nd</sup> intranational scientific conference (ISC 2019), held on 24<sup>th</sup>-25<sup>th</sup> April by college of science, university of Al-Qadisiyah, Diwaniyah, Iraq.

**2-** High-Resolution Spectroscopy for the Determination of Polycyclic Aromatic Sulfur Heterocycles in Environmental Samples. Maha Al-Tameemi, Sadia Arif, Andres D. Campiglia, Walter B. Wilson and Stephen A. Wise. 69<sup>th</sup> Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Orlando, FL, February 26-March 1, 2018. Poster Presentation 1030-12.

**3-** Time-resolved Phosphorescence Spectroscopy for the Isomeric Determination of Polycyclic Aromatic Sulfur Heterocycles with MW 234 in the Gulf of Mexico. Maha Al-Tameemi, Sadia Arif, Andres D. Campiglia, Walter B. Wilson and Stephen A. Wise. the 6<sup>th</sup> Gulf of Mexico Oil Spill and Ecosystem Conference. New Orleans, LA February 5-8, 2018. (USA)  
Poster Presentation 71, p 24.

**4-** High-Resolution Spectroscopy for the Isomeric Determination of Polycyclic Aromatic Hydrocarbons with Molecular Weight 302 in the Gulf of Mexico. the 2017 Gulf of Mexico Oil Spill and Ecosystem Conference. Elite Hall, Hyatt Regency New Orleans Hotel, February 6-9, 2017. (USA)

**5-** 77K Laser Excited time Resolved spectroscopy for the analysis of Benzo[a]pyrene metabolites in Solid-phase extraction urine samples. B.F. Alfarhani, M. Al-Tameemi and A. D. Campiglia. Abstract book 149, p.61, The 71<sup>st</sup> SWRM/67<sup>th</sup> SERMACS, Memphis, Tennessee, November 4 – 7, 2015. (USA)

**6-** Rapid Determination of Endocrine Disrupting Bisphenol A (BPA) in Drinking Water by Solid Phase Nano-Extraction and Room-Temperature Fluorescence Spectroscopy. M. Al-Tameemi, B. Alfarhani, J. Seok and A. D Campiglia. Abstract book 1120-22P, p. 45, The Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy (PITTCON), Atlanta, Georgia, March 6-10, 2016. (USA)

**7-** Spectrophotometric determination of salbutamol sulphate in bulk and in pharmaceutical formulations, First conference for women and science in Iraq, 2010.

**8-** Safety method, spectrophotometric determination of sulfamethaxazole drug in bulk and pharmaceutical preparations, First conference for women and science in Iraq, 2010.

## **REFERENCES**

Available upon request

## د. مها كاظم سلمان التميمي

قسم الكيمياء

جامعة بغداد

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رقم الهاتف ٠٧٧٣٧٥٦٤٨٨٥

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[mahaks\\_chem@csu.uobaghdad.edu.iq](mailto:mahaks_chem@csu.uobaghdad.edu.iq)

## التعليم

- \* دكتوراه الكيمياء التحليلية- جامعة سنترال فلوريدا-أورلاندو، الولايات المتحدة الامريكية ٢٠١٧
- \* ماجستير الكيمياء التحليلية- جامعة بغداد-العلوم للنبات ٢٠٠٧
- \* بكالوريوس كيمياء-جامعة بغداد – كلية التربية للنبات ٢٠٠١

## الخبرة التعليمية

معاون كيميائي- جامعة بغداد / كلية العلوم للنبات / قسم الكيمياء يوليو ٢٠٠٢-٢٠٠٤  
مدرس مساعد -جامعة بغداد-كلية العلوم للنبات قسم الكيمياء ٢٠٠٧-٢٠١٠  
مدرس-جامعة بغداد- كلية العلوم للنبات-قسم الكيمياء ٢٠١٠-حتى الان  
مدرس مادة الكيمياء التحليلية (الكيمياء التحليلية للمرحلة الأولى والثانية والتحليل الآلي للمرحلة الرابعة  
منسق مختبر ومدرّب لمختبر التحليل الآلي، وتشمل بعض التقنيات والأجهزة التي يتم تدريسها معايرة،  
مثل الأشعة تحت الحمراء وتقنية السائل عالية الاداء HPLC الاستخلاص، مطيافية الامتصاص.

مساعد أبحاث الدراسات العليا - جامعة سنترال فلوريدا يناير 2015 - ديسمبر 2017  
تحديد المركبات العطرية متعددة الحلقة ذات الوزن الجزيئي العالي في النفط المنسكب في خليج المكسيك  
بتقنيه الفلورة والفسفرة.  
ساعد طلاب الدراسات العليا وطلاب الدراسات الاولية الجدد في التعامل مع الأجهزة خلال المراحل الأولى  
من مشاريعهم المعينة والتوجيه، وإعدادهم للمؤتمرات الفنية مع استكشاف الأخطاء وإصلاحها وتحسين  
الأساليب التحليلية وتصميم وتنفيذ التجارب مع تفسير وتحليل البيانات التحليلية وكذلك تدريب الطلاب  
الجامعيين الوافدين على أعمال المختبرات ونشر المقالات.

## المهارات المختبرية

تقنيات الكروماتوغرافيا: HPLC, LC-MS, GC-MS, TLC, Ion, Column

التقنيات الطيفية: UV-Vis, Fluorescence, Phosphorescence, FTIR

طرق الاستخلاص: Liquid-liquid extraction, Solid phase extraction, Solid-phase nanoextraction

البرمجيات: Origin-Pro, ChemDraw, SciFinder, Microsoft Office and Endnote

## البحوث المنشورة

**1-** Bassam Faron Alfarhani, **Maha Al-Tameemi**, Alaa Abbas Fadhel, Rana A Hammza, Muqdad I Kadhem, Endocrine disrupting Bisphenol A detection in different water samples in Iraq. *Journal of Physics: Conf. Series*, 2019 1294, 052045.

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## قيد النشر

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1- Hawraa M. Abdulkareem, **Maha Al-Tameemi**, Israa H. Ibraheem, Muna Sameer Hadi  
Surfactant cloud point extraction as a procedure of preconcentrating for Metoclopramide determination using Spectro analytical technique.

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## المؤتمرات

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