



Curriculum Vitae

Kosar Hikmat Hama Aziz



Department of Chemistry
College of Science
University of Sulaimani

Position: Lecturer & Researcher at University of Sulaimani.

Education:

Assistant Professor in Environmental Chemistry, 2022

Ph.D. in Environmental & Analytical Chemistry, March 2018.

M.Sc. in Analytical Chemistry (Drug Analysis), 2011.

B.Sc. in Chemistry, 2005. University of Sulaimani

Personal information

Gender: male, Birthday: 24.07.1980

Nationality: Iraqi Email: kosar.hamaaziz@univsul.edu.iq

Mobile phone: +964-770-144-3587

Educational background

Ph.D. in Environmental Chemistry **2018** (under supervision of Prof. Dr. Detliv Möller, Prof. Dr. Ibrahim Khorshid and Assistant Prof. Muhammad Amin M. Rashid), Split-site Program between *University of Sulaimani-Iraq and Brandenburg University of Technology (BTU Cottbus-Senftenberg) Germany.*

The dissertation entitled "Application of new planar falling film reactors for degradation and mineralization of few pharmaceuticals and organic pollutants in aqueous solutions by means of ozonation, photocatalysis and non-thermal plasma"

M.Sc. in Analytical chemistry **2011** (under supervising of Prof. Dr. Fadhil M. Najib),
University of Sulaimani-Iraq

Title of the thesis *“Spectrophotometric Determination of Lamotrigine in Pharmaceutical Preparations and Urine Samples Using Bromothymol blue and Bromophenol blue Ion-Pair Reagents”*

B.Sc. in Chemistry **2005 University** of Sulaimani, Iraq.

Area of interest

Environmental Chemistry, Analytical Chemistry, Wastewater Treatment (Advanced Oxidation processes, Adsorption, Non-thermal Plasma), Air quality control, Reactor design for water and wastewater treatment, Photocatalysis, Fenton oxidation, Ozonation, Carbon Dots (Synthesis and Application).

Reviewer in several peer-reviewed international journals (Elsevier, Springer, Taylor & Frances and Royal Society of Chemistry) publishers

Outline Biography

2005-2008 Demonstrator (a chemist working in the lab).

2012- 2014 Decider of the Department of Chemistry.

2011- 2014 Assistant Lecturer of Analytical Chemistry & Instrumental Analysis.

2014- 2018 PhD Student in environmental Chemistry.

2014-2016 Working as a PhD Student in BTU University, Atmospheric Chemistry and Air Quality, Volmerstrasse 13, D-12489 Berlin, Germany.

2016- until now Lecturer & Researcher at the University of Sulaimani.

Teaching experiences:

2011-now Lecturer in Analytical Chemistry and General Chemistry for junior and senior students.

2005-2008 Lecturer practical analytical chemistry & Organic chemistry for freshman students as a chemist.

2005-2008 Teacher practical general chemistry for non-major students.

Instrumental Skills

1. Spectrophotometer.
2. High performance liquid chromatography.
3. Ion chromatography
4. Infrared spectrophotometer.
5. Gas Chromatograph.
6. Atomic absorption spectrometer, Flame photometer.
7. Voltammetry.

Publications (Please see the links)

[Google scholar](#)

[ResearchGate](#)

[ORCID](#)

[Publons](#)

Attended Conferences/Workshops/Training courses

1. **International Workshop on Plasmas for Energy and Environmental Applications (IWPEEA-2016)** which was held in Liverpool, UK, from 21st to 24th August 2016. Oral presentation entitled *“Degradation of pharmaceutical residues in aqueous solution by non-thermal plasma (dielectric barrier discharge) using a planar falling film reactor”*.
2. **Training course for design and construction of reactors and devices using in removal of organic pollutants from wastewater by advanced oxidation technology based on non-thermal plasma (pulse corona discharge & dielectric barrier discharge)** in the institute for *Atmospheric Chemistry and Air Pollution Control*, Berlin, Germany, from 1st until 31st August 2018.
3. **International Conference Water Science for Impact (IWC-2018)**. This was held at Wageningen University & Research (WUR) from 16th to 18th October, Netherland. Oral presentation entitled *“Application of different advanced oxidation processes for removal of aqueous organic pollutants”*.
4. **International Workshop on Clean Air Engineering for cities (CArE-Cities) at the University of Surrey** which was held in Guilford, UK, from 10-11 April 2019. Oral presentation entitled *“Air pollution challenges and mitigation opportunities in Sulaimani city”*.
5. Academic visitor for a period of one month (August 2019), **Global Center for Clean Air Research at Department of Civil and Environmental Engineering, the University of Surrey**,

Guilford, UK as a collaborating partner in **CArE-Cities (Clean Air Engineering for Cities) project**.

6. **The 6th International Conference on Water Resource and Environmental (WRE-2020)** which was held in Tokyo, Japan, from 23rd to 26th August 2020 (Online Conference). Oral presentation entitled ***“Investigation in heavy metal contents of drinking water and fish from Darbandikhan and Dokan Lakes in Sulaimaniyah Province - Iraqi Kurdistan Region”***.
7. **5th Green & Sustainable Chemistry Conference (GREN-2020)** which was held in Dresden, Germany, from 10-11 November 2020. Poster presentation entitled ***“Removal of Perfluorosurfactant from Aqueous Solution Using Nano-pulse Corona Discharge Reactor under O₂ Atmosphere”***.
8. **3rd Water Energy NEXUS Conference (WEN)**, which was held online, on 2–4 November 2020. **WEN 2020 was initially planned to be held in person in the island of Djerba, Tunisia.**
9. Academic visitor for a period of one week (May 2022), **Max-Planck-Institut für Chemie · Postfach 3060 · 55020 Mainz, Germany** as a collaborating partner for the training session at the Max-Planck-Institute for Chemistry (MPIC), 55128 Mainz, Germany on scientific instrumentation to perform atmospheric chemistry research.

Language Skills

1. Kurdish (native)
2. Arabic (good)
3. English (good)

References

1. Professor Dr. Detlive Möller, Brandenburg University of Technology-Cottbus, Germany. moe@btu-lc.fta-berlin.de
2. Professor Dr. Khalid M. Omer, University of Sulaimani, Kurdistan-Iraq. Khalid.omer@univsul.edu.iq
3. Dr. Hans Mießner, Laboratory of Atmospheric Chemistry and Air Quality, (BTU Cottbus-Senftenberg), D-12489 Berlin, Germany. mie@btu-lc.fta-berlin.de