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OBJECTIVE

To implement my knowledge, experience and expertise in the area of chemistry Nano chemistry and to keep up with the cutting edge of Nanotechnologies used in this field.

CURRENT POSITION

Assistant professor/ Department of Chemistry, Faculty of Science, Tripoli (Alfateh) University, Tripoli, Libya

Editor in chief of Libyan Journal of Science.

Head – Nanochimistry postgraduate program and physical chemistry postgraduate program.

EDUCATION

Cardiff University, Cardiff/ The UK

PhD in physical chemistry

2016

“Engineering mixed surfactant systems to template hierarchical nanoporous materials”

University of Liverpool

English Language Centre

Studying English Language including pre-sessional course, IELTS (score of 7.5) preparation course, improving the academic skills and language in preparation for academic study.

2011

(Alfateh) University of Tripoli, Tripoli Libya

2006

M.Sc in physical chemistry

“A study of dielectric properties for selected chemical compounds”

(Alfateh) University of Tripoli, Tripoli Libya

1999

B.Sc in chemistry

WORK EXPERIENCE

Editor-in-chief of Libyan Journal of Science/ Faculty of Science/ University of Tripoli.	2021-2024
Head of nanochemistry research group/ physical chemistry/ Chemistry department.	2017-2024
Assistant professor/ physical chemistry / Chemistry department	2020-2024
Quality and performance evaluation coordinator in the Chemistry Department	2020-2022
Lecturer/ physical chemistry / Chemistry department	2017- 2020
Supervising Master's degree and Bachelor degree students University of Tripoli	2017-2024
Cardiff University, Cardiff/ UK	
Teaching Assistant	
Demonstrating undergraduate chemistry laboratory and tutored them with laboratory skills and understanding of general and physical chemistry.	2011-2016
University of Tripoli, Tripoli Libya	
Lecturer assistant	2006-2010
Teaching undergraduates and tutored them with understanding of general and physical chemistry.	
University of Tripoli, Tripoli Libya	
Teaching Assistant	
Demonstrating undergraduate chemistry laboratory and tutored them with laboratory skills and understanding of general, physical, organic, analytical chemistry laboratories.	2000-2006

SKILLS

- The ability to carrying out research leading to the publishing of work in high-quality journals.
- Experienced in working with surfactants and studying their use as templates to synthesize nanoporous materials.

- A proficient user of colloid characterization techniques such as Tensiometer, fluorescence spectrometer, SANS, PGSE-NMR and EPR.
- Experienced in using other advanced techniques including X-ray Diffraction, XPS, GC and electronic microscopy (SEM, TEM).
- The ability to work on related software such as FISH.
- I am able to perform the tedious analysis of the data obtained from all listed experiments.
- Experienced in characterization of nanoporous particles.
- The ability to supervise students at undergraduate and postgraduate levels.
- Experienced in using different library research tools.
- The ability to use computers and work on various software programs.
- Excellent computer skills for scientific data collection and report writing using Excel, Sigma plot, ChemDraw programs and other general skills in Windows and Mac.
- Excellent skills in literature reviewing and analysis, familiar with Web of knowledge, SciFinder, Scholar, and various on-line and paper-based literature databases.
- Writing and publishing work in academic journals.

HONORS AND AWARDS

- Libya- Britain scholarship, awarded by High Education Ministry in Libya (2010-2016).
- First class graduate from Science Faculty of University of Tripoli (2000).

Conferences and meetings

1. High Committee member of 1st international conference on Nano science and Nano technology/ Libyan Authority for Science Research / **TRIPOLI/ LIBYA/ 2023**
2. Participant in 14th Cardiff Chemistry Conference, **Cardiff** University United Kingdom 2015.
3. Participant in 15th conference of the International Association of Colloid and Interface Scientists *24 to May 29, 2015. Mainz, Germany.*
- 4.. Participant in the second colloid science conference (UK Colloids 2014) July 6th – 9th 2014 Royal Society of Chemistry **London**
4. Participant in 11th International Conference on Materials Chemistry (MC11). 8 - 11 July 2013, **Coventry**, Royal Society of Chemistry, United Kingdom.

PUBLICATIONS

Accepted Articles

1. A swollen liquid crystalline template mechanism to synthesize hierarchical porous materials /ACS Applied Nano Materials.
2. Synthesis, and Characterization of Silver Nanoparticles Functionalized with a Chalcone for Potential Antioxidant Activity/ Journal of Nano Research

Published Articles

2024

- Conductometric and spectral analyses of dye-surfactant interactions between interactions between indigo carmine and N-alkyltrimethylammonium chloride MK Sah, K Edbey, ZO Ettarhouni, A Bhattarai, D Kumar. Journal of Molecular Liquids 399, 124413
- Exploring the role of aspartic acid in modulating micellization behavior of cationic cetyltrimethylammonium bromide, Manish Kumar Sah, Zaineb O. Ettarhouni, Aysha B. Mezoughi, Suad E. Abughrin, Hager S. El-Beshti, Esraa A. Alhammali, Hajer A. Alhammali, Ajaya Bhattarai, Journal of Molecular Liquids, Volume 412, 2024, 125856.

2023

- EXAMINING THE OPINIONS OF ENGINEERS ABOUT RENEWABLE ENERGY SOURCES YMAFASEAZO Ettarhouni China Petroleum Processing and Petrochemical Technology 23 (2), 1102-1125
- Activated Charcoal and Derivate Materials in Drugs and Biopharmaceutical Purification Impurity Aspects-
- Novel Compatible Silver Nanoparticles Functionalized by Vitamin C and its Derivatives: Characterization and their Antibacterial Activity against Escherichia coli and Staphylococcus aureus. Volume 13, Issue 6, 2023, 590

2022

- Study on the effects of biologically active amino acids on the micellization of anionic surfactant sodium dodecyl sulfate (SDS) at different temperatures FM Elarbi, ZO Ettarhouni, W Abdussalam-Mohammed, AB Mezoughi Chemistry 4 (1), 146-155

- Monoliths in the mRNA vaccine purification process-The silica resin and other composite materials: The carbon content M Luisetto, NB Ahmadabadi, ZO Ettarhouni, K Edbay, OY Latyshe Virology and Mycology 11 (4), 1-14

2021

- The Role of Pulmonary Surfactant in COVID-19 Understanding Z O Ettarhouni A B Mezoughi
international research journal of pure and applied chemistry 22 (6), 15-30.
- Recent Biological Applications and Chemical Synthesis of Thiohydantoin. Z O Ettarhouni A B Mezoughi
Journal of Chemical Reviews 1 (3), 196-218

2020

- Studying the rheological properties of poly (vinyl pyrrolidone) in chloroform solutions
MS Al-howach, ZO Ettarhouni, AA Jangherb
Journal of Pure & Applied Sciences 19 (2), 1-5
- Determination of CMC and interfacial properties of anionic (SDS) and cationic (CPB) surfactants in aqueous solutions
FM Elarbi, AA Janger, LM Abu-sen, ZO Ettarhouni
Am. J. Eng. Res. AJER 9, 118-126
- Concentration, Temperature and Molecular Weight Dependent on Optical Properties of Poly (Vinyl Pyrrolidone) in Chloroform Solutions
AA Jangher, M Abusen, MS Alhosh, ZO Ettarhouni

2016

- Quantifying the micellar structure formed from hydrocarbon-fluorocarbon surfactants ZO Et-Tarhouni, E Carter, DM Murphy, PC Griffiths, OT Mansour, SM King, Colloids and Surfaces A: Physicochemical and Engineering Aspects 492, 255-262

2015

- Engineering mixed surfactant systems to template hierarchical nanoporous materials. Z Et-Tarhouni. Cardiff University

2006

- A study of dielectric properties for selected chemical compounds
Alfatheh) University of Tripoli, Tripoli Libya