



## Sarah Badri Jasim

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### Academic Qualifications

- |             |   |
|-------------|---|
| <b>2020</b> | <b>PhD</b><br>School of Chemistry<br>Nottingham University, UK<br><b>Doctoral Thesis:</b> "Calculations of Protein CD in near-UV"   |
| <b>2010</b> | <b>Master degree</b><br>Department of Chemistry<br>Baghdad University, Iraq<br><b>Master Thesis:</b> "Adsorption and Electrochemical removal of Cr from aqueous solution" |
| <b>2006</b> | <b>Bachelor of Chemistry (With Honours)</b><br>Department of Chemistry<br>Baghdad University, Iraq  |

### Honors and Awards

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|-------------|---|
| <b>2010</b> | Computer Center /Baghdad University             |
| <b>2010</b> | Teaching Methods /Baghdad University            |
| <b>2012</b> | President of Wasit University /Wasit University |
| <b>2014</b> | PhD scholarships /MOHER/Iraq                    |
| <b>2015</b> | Safety methods /Nottingham University           |
| <b>2018</b> | Teaching methods /Nottingham University         |

### Professional Profile

1. Working as laboratory demonstrator at the physical chemistry 2<sup>nd</sup> /3<sup>rd</sup> stages from 2010 till 2014.
2. Working as a lecturer in physical chemistry/ 2<sup>nd</sup> / 3<sup>rd</sup> / 4<sup>th</sup> stages from 2010 till 2025.
3. Supervision of student's project/4<sup>th</sup> stage from 2010 till 2025.
4. Academic guide for 2<sup>nd</sup> stage students in 2011, 2014, 2020, 2022 and 2024.
5. Academic guide for 3<sup>rd</sup> stage & 4<sup>th</sup> stage students in 2012, 2014, 2019, 2021 and 2025.

## Academic Employment – Teaching and Research

2010-2025

### **Tutor**

Department of Chemistry, College of Science.

### **Achievements**

- Ten thanking certificates from the Minister of MOHE.
- Ten thanking certificates from the President of Wasit University.
- Fifteen thanking certificates from the Dean of College of Science.

### **Responsibilities**

- Assistant to the head of Chemistry department in Wasit University.
- Member of safety committee to control the safety of chemical compounds.
- Member of scientific committee.
- Member of examination committee.

## Publications

- **Jasim, Sarah B.**, Adsorption and Electrical removal of Cr from aqueous solutions. Diss. University of Baghdad, 2009.
- **Jasim, Sarah B.**, Zhuo Li, Ellen E. Guest, and Jonathan D. Hirst. "DichroCalc: improvements in computing protein circular dichroism spectroscopy in the near-ultraviolet." *Journal of molecular biology*, (2018).
- Rogers, David M., **Sarah B. Jasim**, Naomi T. Dyer, François Auvray, Matthieu Réfrégiers, and Jonathan D. Hirst. "Electronic Circular Dichroism Spectroscopy of Proteins." *Chem* (2019).
- **Jasim, Sarah B.** Computing Protein Near-UV Circular Dichroism Spectra. Diss. University of Nottingham, (2020)
- Raheem A.H. Al-Uqaili, Subhi Al-biatie, **Jasim, Sarah B.**, Kinetics study of the corrosive behaviour of copper in 1M HCl acis and its inhibition with 2-benzothiazolethiol, (2020).
- Sura Hamid Kathim; **Sarah Badri Jasim**; Atheer Abdulsahib Ali; Raheem A. H. Al-Uqaily □;
- Subhi A. H. Al-Bayat, Investigation of (4-ethylphenethylamine) as organic inhibitor for carbon steel corrosion in HCl acid under various conditions, (2024)
- Khalidah H. M. Al Furaiji, and **Sarah Badri Jasim**, Theoretical Study for Stabilizing Group 14 Elements by Five Different Carbene Ligands as L-E-E-L Complexes, (2024)
- **Sarah Badri Jasim**, and Mahdi Basim Najim, Electronic Structure of Proteins: Exciton Hamiltonian for a Dipeptide, (2025).
- **Sarah Badri Jasim**, Khalidah H. M. AL FURAIJI, Asam Hussein Ali Computational Approaches to Studying Reaction Mechanisms and Transition States in Quantum Chemistry, (2025)
- **Jasim, Sarah Badri**, Alaa N. Kurdi, Mohammed Rashid Znad, Athra G. Sager, Raheem AH Al-Uqaily, Subhi AH Al-Bayat, and Watheq Naser Hussein. "Experimental and theoretical examination of 2-(thiophen-2 yl) ethanamine as mild steel corrosion inhibitors in acidic conditions using DFT computational analysis.(2025).
- **Jasim, Sarah Badri**, Utilizing Tri-ethylamine as organic inhibitor to reduce copper corrosion in acidic environments; DFT Computational study theoretical and experimental, (2025)

## **Presentations and Poster**

- Presentation in post graduated week in Nottingham University, July 2018, UK.
- Presentation in midland chemistry conference in Trent University, July 2019, UK.
- (Poster Session) in Nottingham University, June 2017, Nottingham, UK.
- (Poster Session) in Warwick University, June 2016, Coventry, UK.
- (Poster Session) in Nottingham University, June 2015, Nottingham, UK.
- (Poster Session) in a conference of chemistry , September 2019, Baghdad Iraq.
- Presentation of many symposium in Wasit University from 2019 till now.

## **Referees**

Professor Jonathan Hirts  
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Nottingham University  
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