

# Mostefe Khalid Mohammed

## Contact Information

Name: Mostefe Khalid Mohammed

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Date of Birth: May 13, 1988

## Highlights

- Over 4 years of research experience in the analytical, Physical, and Organic laboratories.
- Over 8 years of chemistry undergraduate laboratory teaching.
- Highly skilled in operating various analytical instruments, including High Performance Liquid Chromatography (HPLC), Mass Spectrometry, UV-Vis, Fourier-Transform Infrared Spectroscopy (FTIR), Atomic Absorption Spectroscopy (AAS), and Viscometer.
- Highly experienced in presentations and poster preparation, as well as writing lab reports.
- Highly motivated, persistent, with great communication skills.

## Education

### ❖ **Master of Science in Chemistry**

- The University of Diyala, College of Education for Pure Science, Chemistry department in Iraq. November 2020 – December 2022.
- Academic Advisor: Dr. Ghalib A.Atiya , Research Advisor: Dr. Abdulqadier Hussien Al khazraj.
- I graduated with **excellent** average marks, I achieved the position No. 1 on the graduate list of our chemistry department (with excellent average marks 90.97%).
- My study was in English language.

### ❖ **Bachelor of Science in Chemistry**

- The University of Diyala, College of Education for Pure Science, Chemistry department in Iraq. October 2006 - July 2010.
- Academic Advisor: Dr. Ghalib A.Atiya , Research Advisor: Dr. Firas Habeb Abdulrazzak.
- I graduated with very good average marks, I achieved the position No. 1 on the graduate list of our chemistry department as well as in our college (with very good average marks 87.658%).
- My study was in English language.

### ❖ **High school “Baccalaureate”**

- I graduated from Al-Rashedeen High school, Iraq-Diyala province. 2006>
- A good average mark (74.428%).

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## Experience

### ❖ Teaching Experience at the chemistry department in the College of Education and Pure Science-University of Diyala

- Because I graduated with honor (with the highest average marks among my colleagues), I was employed in the same college that I graduated from.
- Over 6 years of chemistry undergraduate laboratory teaching.
- Lab Courses that I taught: Introduction to Chemistry, College Chemistry Laboratory I, Organic laboratories for (level I, II, III, IV), Analytical laboratories for (level I, II, IV), and Physical laboratories for (level II, III).
- In addition, assisting professors with pre-lab lectures, instructive handouts, and quizzes along with grading the lab reports and weekly quizzes, mid-term and final examinations.
- Assisting and monitoring undergraduate students performing various instructive experiments.
- Preparing lab setups, enforcing safety regulations, and maintaining a clean and orderly laboratory environment.

### ❖ Research Experience

- Over 6 years of research experience in the analytical, Physical, and Organic laboratories.
- in last 5 years, I gained a good research experience through the collaboration with some of the faculty members in our chemistry department.
- I gained a good research experience through the my thesis during study of master degree with title (Synthesis of nano metal oxide using different routes and comparing their properties for the removal of sulfur from crude oil).

## Conferences / Presentations / Publications / Training Courses

- I have participated in many local conferences such as:
  - The 2 nd International Scientific Conference (ISC 2019) at College of Science , University of Al –Qadisiyah 24<sup>th</sup>-25<sup>th</sup> April -2019.
  - 1<sup>st</sup> international conference on pure and applied science at college for pure science – Diyala University (ICPAS-2021) on November 29-30,2021.
  - The Second Scientific International Conference For Biology and Pure Sciences at College of Science , University of Mosul (SSICBP2022) 19-20 October 2022.
  - As a Chemistry Supply Technician, I have done many oral presentations: Lab safety, Fire safety, and Safety training seminars.
  - I have Seven publications and Two under publications :
1. **Mostefe Khalid Mohammed:** Purification and Functionalization of Carbon Nanotubes Based on Hydrogen Peroxide.

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2. **Mostefe Khalid Mohammed:** Preparation and Characterization of Silver Oxide Nanoparticles AgNPs and Evaluation the Ratios of Oxides.
  - 3- **Mostefe Khalid Mohammed:** Ultrasonic synthesis and antimicrobial activity of some diazenyl-1,3,4-thiadizole derivatives.
  - 4- **Mostefe Khalid Mohammed:** Synthesis and anti-bacterial activity of some azo Compounds.
  - 5- **Mostefe Khalid Mohammed:** SYNTHESIS AND ANTI-BACTERIAL ACTIVITY OF SOME 1,3,4-THIADIAZOLE AZO COMPOUNDS
  - 6- **Mostefe Khalid Mohammed:** synthesis and characterization of new Schiff base of cefadroxil and study their antibacterial activity.
  - 7- **Mostefe Khalid Mohammed:** Synthesis and Characterization of Fe<sub>2</sub>O<sub>3</sub> Nanoparticles Using the Precipitation and Eco-Friendly Methods .
  - 8- **Mostefe Khalid Mohammed:** Preparation of NiO Nanoparticles through the Eco - friendly and Co precipitation methods and comparing their properties.
  - 9- **Mostefe Khalid Mohammed:** Extraction, characterization and comparison the components of Eruca vesicaria L and Eruca sativa Mill and study their antibacterial activity.
- Participating in the training course that quality assurance department provided as a part of the requirements to obtain the ISO 17025 certificate, it was held in the College of Science-University of Diyala for the period November 24-25, 2015.
  - Participating in the training course of Good laboratory practice (GLP) that was held in the College of Science-University of Diyala.
  - Participating in the training course of Recycling Waste Materials for the period September 24-27, 2013.
  - Participating in a training course "CBRNE (pronounced "SEE-burn") is an acronym for Chemical, Biological, Radiological, Nuclear, and Explosive materials. It was held At Al-Nasr Camp-Baghdad international Airport. This course was given by American lecturers and Military-Chemical experts for the period from December 12-17, 2015.
  - Participating in a training course as lecturer Soap and detergent industry course It was held at Chemistry Department - College of Education for pure Science-University of Diyala for the period from December 12-13, 2022.
  - Participating in a training course as a part of the requirements to obtain the Computer competency certificate , it was held in the Electronic Computer Center -University of Diyala for the period from December 18-27, 2022. , I achieved the position No. 1 on the graduate list of course (with excellent average marks).
  - Participating in a training course as a part of the requirements to obtain the Computer competency certificate , it was held in the Electronic Computer Center -University of Diyala for the period from December 18-27, 2022. , I achieved the position No. 1 on the graduate list of course (with excellent average marks).

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- Participating in a training course as a part of the requirements to obtain the Certificate of Educational Rehabilitation Course in Teaching Methods, it was held at the Continuing Education Center-University of Diyala for the period from November 13-11 to 04-12, 2022. , I achieved the position No. 1 on the graduate list of course (with very good average marks).

### Patents

- I have patent under publication at The Central Agency for Standardization and Quality Control – Iraq. **Mostefe Khalid Mohammed:** Preparation of nano-iron and nickel oxides prepared by aqueous leaf extract of Capparis Spinosa and their use in the adsorption of sulfur compounds in crude oil.

### Skills and Activities

- Highly skilled in operating various analytical instruments, including High Performance Liquid Chromatography (HPLC), UV-Vis, Fourier-Transform Infrared Spectroscopy (FTIR), Atomic Absorption Spectroscopy (AAS), and Viscometer.
- analyzing the smuggled oil samples that sent by judicial authorities to our Chemistry Department-Central laboratory and write the final report of the results then send it back to the local courthouse.
- Analyzing the water samples that sent by the local water department in our province for the quality and purity purposes and determine the percentage of the heavy metals found in it using Atomic Absorption Spectroscopy (AAS).
- Analyzing the various mineral acid samples that sent by judicial authorities to our Chemistry Department-Central laboratory and write the final report of the results then send it back to the local courthouse.
- Preparing and participating in the annual scientific exhibition in our chemistry department.

### Honors and Awards

- **Twenty One** honors from the dean of College of Education for Pure Science in the following respective dates: 10-12-2012; 14-05-2013; 12-01-2015; 20-04-2015; 03-09-2015; 09-03-2016; 22-08-2016; 30-11-2016 ; 08-10-2017 ; 25-07-2017; 25-03-2018 ; 09-10-2018 ; 02-12-2018; 21-01-2019 ; 04-04-2019; 10-06-2019 ; 15-03-2020 ; 06-05-2020 ; 16-08-2020 ; 28-12-2022 ; 02-01-2023 .
- **Two** honor from the President of the University of Diyala in 17-06-2014 ; 12-10-2020.
- **Five** honor from the Minister of Higher Education and Scientific Research in 14-01-2014; 26-08-2021; 14-04-2021 ; 06-05-2020 ; 25-10-2022.

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- **One** honor from the President of the Federal Court of Diyala province in 23-09-2014.
- **One** honor from the Prime Minister of Iraq in 06-10-2022.
- An award “Laptop Dell” from the president of the University of Diyala in 2010 because I graduated with honor (with the highest average marks among my colleagues).
- An award “250000 IQD” from Minister of Education in 2010 because I graduated with honor (with the highest average marks among my colleagues).