Curriculum Vitae

Personal Information

Full Name: Makhlouf Mohammed Rabeh

Date and Place of Birth: 02/05/1994, Guelma, Algeria

Nationality: Algerian

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Google Scholar: https://scholar.google.com/citations?hl=fr&user=2_mQiUQAAAAJ

Education

> *Ph.D. in Chemical Engineering (2019–2025)*

Title: Bio-adsorbents: Elaboration, characterization and applications for wastewater treatment

8 Mai 1945 University of Guelma, Algeria

> *M.Sc: Process Engineering (Environmental Engineering Option) (2015–2018)*

National Polytechnic School of Constantine (ENPC), Algeria.

Master Thesis: Synthesis and characterization of metal oxide nanoparticles by ultrasonic and chemical methods

Engineering Project: Study of zinc dissolution in different media

> *B. Sc. Preparatory Classes (2013-2015)*

 Preparatory School of Science and Technology (EPST), Annaba, Algeria

Research and Work Experience

Quality Control Inspector at SPA Bordj Steel, Bordj Bou Arréridj, Algeria (2019–2020)

Teaching Experience

- Lab Instructor – General Chemistry, First-Year Engineering Students, First Semester 2024. University of 20 August 1955, Skikda, Algeria
- Tutorial Instructor – Thermodynamics. Master 1 – Material Science Program, First Semester 2024. University of 20 August 1955, Skikda, Algeria

Scientific Publications

Makhlouf M.R., et al. (2024). Eco-friendly synthesis of biosorbent based in chitosan-activated carbon/zinc oxide nanoparticle beads for efficiency reduction of cadmium ions in wastewater. Biomass Conversion and Biorefinery. Q2 – First Author.

Author 4. (2024). Multi-objective optimization of wastewater treatment using electrocoagulation. Chinese Journal of Chemical Engineering. Q1 Journal.

Conferences, Seminars and Scientific Communications

- International Conference on Bio & Nanotechnology (ICBN - 2023), 20–21 December 2023, Istanbul, Turkey. Title: 'Cadmium Removal from Aqueous Solution Using Chitosan Beads Prepared from Shrimp Shell Extracted Chitosan.'
- 9th Solid Chemistry Conference (SCC 2023), 17–20 December 2023, Barceló Concorde Green Park Palace Hotel, Port El Kantaoui, Sousse, Tunisia. Poster communication: 'Adsorption of Acetaminophen from Aqueous Solution Using Chitosan Beads Extracted from Shrimp Shells.'
- 1st International Seminar on Medicinal Chemistry and Green Chemistry (1st IS MCGC), 2024, Annaba, Algeria. Oral communication: 'Eco-Friendly Synthesis of Biosorbent Based on Chitosan-Activated Carbon/Zinc Oxide Nanoparticle Beads for Efficient Reduction of Cadmium Ions in Wastewater.'
- 3rd National Seminar on Applied Chemistry, 2024, Université 8 Mai 1945 Guelma, Algeria. Title: 'Eco-responsible Approach to Wastewater Treatment, Using Innovative Biomaterials.'

Skills

• MATLAB, Origin Pro, Excel

• Artificial Neural Networks (ANN), Density Functional Theory (DFT) calculation

• Design of Experiments (DOE), Response Surface Methodology (RSM)

• Data analysis, Adsorption modeling

• Laboratory preparation, Characterization techniques: AAS, HPLC, COT

Languages

Arabic: Native

French: Fluent C1

English: Upper Intermediate – B2