



Dr. Mansour Nawasir Alhabradi

Renewable Energy - Hydrogen Production and Solar cells



CONTACT

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LANGUAGE

- Arabic
- English

EXPERTISE

- Teaching Physics at different levels
- Particle Characterization by Advanced Electron Microscopy (SEM-TEM)
- UV-Vis-IR Spectrophotometry
- Growth Analysis of Thin Films (Aluminum, Copper)
- X-Ray Diffraction Experiment
- Quantum Mechanics and Density Functional Theory
- Spin Coating, Screen-Printing, and Sol-Gel Methods
- Power Conversion Efficiency Measurement
- Electrochemical Impedance Spectroscopy (EIS)
- Physical Vapor Deposition (PVD)
- Photoelectrochemical Techniques

EXECUTIVE SUMMARY

A dedicated academic and researcher specializing in renewable energy, particularly in hydrogen production and solar cells. Extensive experience in teaching, research, and administrative roles within the physics department, contributing to the advancement of sustainable energy solutions.

WORK EXPERIENCE

- Demonstrator (2008–2012)
- Lecturer at Majmaah University (2012–2024)
- Assistant Professor (2024–Present)
- **Head of Physics department (2025–Present)**
- Head of the Student Guidance and Counseling Unit – 2024 to Present
- Head of the Knowledge Resources Committee in the Physics Department – 2024 to Present
- Member of the Voluntary Work and Community Service Committee in the Physics Department – 2024 to Present
- Member of the Faculty Committee in the Physics Department – 2024 to Present
- Member of the Cooperative Training Committee in the Physics Department – 2024 to Present
- Member of the International Classification Committee – 2024 to Present

ACADEMIC BACKGROUND

- Bachelor's in Physics, College of Science (2004-2008)
- Master's in Materials Physics, Salford University (2010-2012)
- Ph.D. in Materials Science - Hydrogen, Exeter University (2021-2024)

MORE ABOUT ME

- Research interests include solar energy conversion, nanomaterial-based electrodes, hydrogen production, and photocatalytic systems.
- Speaker at international conferences, including WCCE-2023 in Spain, ICES2023 in Saudi Arabia, and various energy-related symposia.
- Reviewer for Inorganic Chemistry Communications.
- Holds multiple certifications in leadership, strategic planning, total quality management, and training methodologies.
- For a full list of publications: Google Scholar (M.alhabradi) and ORCID ID: <https://orcid.org/0000-0001-5628-5613>.