CURRICULUM VITAE

Omar Yousef

PhD Researcher in Nanotechnology & Nano-Physics

Physics Lecturer · Clean-Energy Nanomaterials

+963 945 250 822

phomsy94@gmail.com

Damascus, Syria

yousef.omar@damascusuniversity.edu.sy



PROFILE

380 nm

Nano-physicist developing nanomaterials for clean-energy storage. My doctoral work engineers carbon-modified iron-oxide anodes for sodium-ion batteries, pairing hydrothermal synthesis and electrochemical testing with computational modelling. Since 2015 I have taught physics from school level to university labs in Syria and Saudi Arabia, and in 2026 the Council of Higher Education approved me to teach theoretical physics courses at Syrian private universities.

EDUCATION

450 nm

PhD in Nanotechnology / Nano-Physics — In progress
Damascus University · Nanomaterials for clean-energy storage

Academic Master in Nano-Physics — 2024
Damascus University · Grade: Very Good

Master's Program in Theoretical Physics — 2022
King Fahd University of Petroleum & Minerals, KSA

B.Sc. in Physics — 2013 – 2018
Damascus University · Grade: Very Good

TEACHING EXPERIENCE

490 nm

Approved Lecturer — Theoretical Physics — 2026
Council of Higher Education, Syria — Approved to teach theoretical physics courses at Syrian private universities.

Physics Instructor — Physics 1 & 2 Labs — 2 years
Syrian Private University · Informatics Engineering

Engineering Physics Instructor (Theory & Lab) — 2 years
Construction Technology Engineering students

Physics 101 Lab Instructor — 2022
King Fahd University of Petroleum & Minerals

Applied Physics Lab Instructor — 2019 – 2022
Department of Physics, Damascus University

Physics & Chemistry Teacher — 2015 – 2020
Preparatory and secondary schools

COURSES & CERTIFICATES

530 nm

Thin-Film Fabrication & Characterization Techniques · Atomic Energy Commission of Syria — 2019

Quantum Mechanics · University of Colorado Boulder (online) — 2021

UNDP / Venture International: Project Cycle Management, Proposal Writing, Soft Skills, Budgets & Reports, Monitoring & Evaluation — 2017–20

PHD RESEARCH

580 nm

Carbon-modified iron oxides as anode materials for sodium-ion batteries

- Fe3O4 · γ-Fe2O3 · α-Fe2O3 phases
- Hydrothermal synthesis + carbon coating
- CV, EIS, charge–discharge testing
- Computational property screening

SKILLS

620 nm

Gaussian 09W	85%
Origin	75%
MATLAB	65%
ORCA	60%
Word	100%
PowerPoint	100%
Mendeley	100%
Excel	90%
Access	80%
Illustrator	65%

LANGUAGES

700 nm

Arabic native **English** very good

PhD English test 75% (Advanced), 2024

UNDP PROJECTS

2017–19

M&E team, Procurement Committee, photographer & assistant director; trainer in entrepreneurship and vocational courses.

MEMBERSHIP

Syrian Initiative Unit for Nanotechnology — Nanophysics Lab, Damascus University