

CONTACT

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Damascus, Syria

TEACHING INTERESTS

- General Physics I & II (theory and laboratory)
- Engineering Physics for engineering programmes
- Introductory Quantum Mechanics
- Introduction to Nanoscience & Nanotechnology
- Physics of Materials for Energy Storage
- Thin-Film Fabrication & Characterization (laboratory)

SCIENTIFIC SOFTWARE

Gaussian 09W ●●●●○
Origin ●●●●○
MATLAB ●●●○○
ORCA ●●●○○

OFFICE & TOOLS

Word · PowerPoint · Excel · Access · Mendeley · Illustrator

LANGUAGES

Arabic — native
English — very good
PhD English test: 75% (Advanced), 2024

MEMBERSHIP

Syrian Initiative Unit for Nanotechnology — Nanophysics Lab, Damascus University

REFERENCES

Available upon request.

Omar Yousef

Physics Lecturer · PhD Researcher in Nanotechnology & Nano-Physics

Physics educator with university teaching at Damascus University, KFUPM (Saudi Arabia) and the Syrian Private University, approved in 2026 by the Council of Higher Education to teach theoretical physics courses at Syrian private universities. I bring laboratory-rich teaching, an English-medium teaching background and active doctoral research on sodium-ion battery materials into the classroom.

■ TEACHING EXPERIENCE

Approved Lecturer — Theoretical Physics Courses — **2026**
Council of Higher Education, Syria

- Approved by the Council of Higher Education to teach the theoretical courses of the physics specialization at Syrian private universities (full-time, minimum 12 teaching hours per week).

Physics Instructor — Physics 1 & 2 Laboratories — **2 years**
Syrian Private University (SPU), Faculty of Informatics Engineering

- Delivered the Physics 1 and Physics 2 laboratory sessions for informatics-engineering undergraduates.

Engineering Physics Instructor (Theory & Laboratory) — **2 years**
Construction Technology Engineering programme

Physics 101 Laboratory Instructor — **2022**
Department of Physics, King Fahd University of Petroleum & Minerals (KFUPM), Saudi Arabia

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

- Four years supervising the applied (laboratory) aspects of undergraduate physics courses.

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

■ EDUCATION

PhD in Nanotechnology / Nano-Physics — **In progress**
Damascus University

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

■ DOCTORAL RESEARCH

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

- Fe_3O_4, γ-Fe_2O_3 and α-Fe_2O_3 synthesized hydrothermally, then carbon-modified.
- Electrochemical testing by CV, EIS and galvanostatic charge–discharge.
- Computational screening of quantum properties before and after modification.

■ PROFESSIONAL DEVELOPMENT

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

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

UNDP / Venture International training — **2017 – 2020**
Project Cycle Management · Proposal Writing · Soft Skills · Budgets & Reports · Monitoring & Evaluation

■ SERVICE & PROJECTS

UNDP development projects — **2017 – 2019**
M&E team · Procurement Committee · trainer in entrepreneurship and vocational courses · photographer & assistant director