



Anouar M. Jbeli

Associate Professor

Academic Specialization: Physics



CONTACT INFO

- Physics Department
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- KSA

LANGUAGES

English
Frensh
Arabic

EXPERTISE

- Ultrafast Spectroscopies
- Photoluminescence
- Quantum Nanostructures
- Optoelectronic devices.
- Excitonic Spin Dynamics
- Core/Shell Quantum dots
- Optical Characterization
- Electronic and Optical properties of Nanostructures
- Lasers (Ti:Sa, And OPO)
- Spin Relaxation Mechanisms
- Molecular Beam Epitaxy
- Ceramics Properties

EXECUTIVE SUMMARY

An experienced academic and researcher in Physics specialized in Semiconductor in particular Quantum Dots (QDs) and their horizons in the design of Optoelectronic Devices, HD screens, and even medical application. The General scope is "how to benefit from high technology in the frame of sustainable development"

WORK EXPERIENCE

- **Lecturer** in "INSA-Toulouse" (France) (2000-2003) (General Physics)
- **Trainee** in the frame of the **TEMPUS-MEDAS** teaching project between **Tunisia** and the **European Union**.
Institution : ENS-Paris-Sacley /Cachan – Paris (France)
- **Assistant Professor** at **College of Science of Monastir (Tunisia)**, since **2004 till 2014**.
- **Supervising Master' Project** in **2012** entitled « Modelling of nanostructures GaInP/GaAs/Ge for photovoltaic applications with high yield »
- **Associate Professor** at **AlMajmaah University**, since **2014 till now**

ACADEMIC BACKGROUND

- **PhD**
 - 2000-2003: PhD in Physics Sciences
 - Institution: University of Toulouse 3 - France.
- **Master**
 - 1999-2000: DEA Diploma in Physics Sciences " NanoPhysics, NanoMeasurements, NanoComponents "
 - Institution: University of Toulouse 3 - France.
- **Bachelor**
 - 1995-1999: Bachelor's Degree in Solid State Physics
 - Institution: College of Science of Monastir (University of Monastir)

MORE ABOUT ME

General Skills

- **MS-Office**
- Operating System: **windows, Linux**
- **Internet**
- **Black Board**
- Programming Languages: **Mathematica, LabView**

Research sites:

ORCID Id: [0000-0002-1078-7842](https://orcid.org/0000-0002-1078-7842)

Google Scholar : <https://scholar.google.com/citations?user=vEnbphcAAAAJ&hl=en>

Research Gate : https://www.researchgate.net/profile/Anouar-Jbeli?ev=hdr_xprf

Published Researches

- Morphology-Engineered ZnO Nanostructures: Synergistic Role of Nanosheets and Nanorods in Enhancing Electrical and Dielectric Properties for Advanced Composite Applications, November 2025
<https://doi.org/10.1016/j.ceramint.2025.11.278>
- Structurally disordered γ -Fe₂O₃-TiO₂ nanocomposites with enhanced magnetodielectric response for low-frequency functional applications, November 2025
<https://doi.org/10.1016/j.jallcom.2025.184407>
- Electronic structure, optical properties, and thermistor characteristics of BaFe_{0.5}Nb_{0.5}O₃ (BFN), October 2025
<https://doi.org/10.1007/s10854-025-15908-3>
- Tailoring electrical and dielectric properties of ZnO thin films via oxygen vacancy engineering: evidence from impedance and spectroscopic analyses, August 2025
<https://doi.org/10.1016/j.inoche.2025.115401>
- Modelling the magnetocaloric effect in Te-doped LaMnO₃ within the framework of mean field theory, July 2025
<https://doi.org/10.1016/j.physb.2025.417623>
- Structural, morphological, and optical properties of Zn_{1-x}Cu_xO (x = 0; 0.02; 0.04): a comparative study of nanoparticle and ceramic states via sol-gel and spark plasma sintering, July 2025
<https://doi.org/10.1007/s10854-025-15408-4>
- Recent advances in sol-gel synthesis of oxide perovskites for energy and functional applications: a mini review June 2025
<https://doi.org/10.1007/s10971-025-06842-1>
- Metal halide perovskites for energy applications: recent advances, challenges, and future perspectives, June 2025
<https://doi.org/10.1039/D5RA02730F>
- Effects of silver doping at the A-site on the structure, surface morphology, and magnetic behavior of La_{1-x}Ag_xSrMn₂O_{5+ δ} (x = 0.1 and 0.2), June 2025
<https://doi.org/10.1039/D5RA02729B>
- Optoelectronic properties of CdSe/ZnSe and ZnSe/CdSe core/shell spheroidal prolate quantum dots through the geometrical parameters and dielectric oxide matrix: A theoretical investigation, May 2025
<https://doi.org/10.1016/j.rinp.2025.108299>
- Tunable Electrical Properties of Cobalt-Doped Maghemite Nanoparticles for Advanced Resistive and Thermistor Applications, April 2025
<https://www.mdpi.com/2079-4991/15/7/534>
- Investigating the NTC characteristics of (1 - x)BFN - xBCW ceramics via impedance spectroscopy, Feb. 2025
<https://doi.org/10.1016/j.ceramint.2025.02.205>
- Enhanced electrical and magnetic properties of barium manganese titanium oxide perovskite ceramics synthesized by solid-state reaction, Dec. 2024
<https://doi.org/10.1007/s10854-024-14088-w>
- Sensitivity of the Linear and Nonlinear Optical Properties to an Electric Field and Doping Density in CdSe/MgSe Single Quantum Wells, July 2024
<https://doi.org/10.1007/s11664-024-11276-6>
- Crystal structural, morphological and Raman spectroscopy characterizations of Ba_{0.97}La_{0.02}Ti_{1-x}Nb_{4x}/5O₃ (0.00 < x < 0.10) ceramics, March 2024
<https://doi.org/10.1016/j.jallcom.2024.174083>
- Elaboration of La (Sr/Na) Mn (Ti) O₃ ceramic, structural, and morphological investigations, and contribution of direct and indirect interactions on transport properties, February 2024.
<https://doi.org/10.1016/j.ceramint.2024.02.149>