

Dr. Mahmoud Mohammed Ahmed Farout

Mobile:00972599554430

Tel.: 0097292353792

Email: m.garout@najah.edu

nanofarout@gmail.com



Personal information:

- *Nationality: Palestinian*
- *Date of birth: 10-12-1969*
- *Nablus-Palestine*
- *Marital status: Married*
- *Sex: Male*

Academic Qualifications:

Ph. D. of Physics

- *University: Lancaster University -UK*

- *Date of Graduation: Oct. 2019*

- *Specialization: Nano-Biomedical Physics*

- *Thesis Title: The interaction between metabolism and the plasma membrane potential, and intracellular pH*

M. Sc. Of Physics

- *University: An-Najah N. University*

- *Date of Graduation: 2011*

Specialization: Computational physics of condensed matter

- *Thesis Title: Structural, Electronic and Magnetic properties of Ga_{1-x}Fe_xN (x= 0, 0.25, 0.5, 0.75, 1) Alloys in Zincblende Structure: First-Principles Study*

B. Sc. Of Physics

- **University:** An-Najah N. University

- **Date of Graduation:** May. 1995

Professional Experience:

- Chairman of Physics department at An-Najah University (Sep. 2020 – until now).*
- Assistant Professor at An-Najah N. University (Sep. 2019- until now).*
- Lecturer at An-Najah N. University (Jan. 20 2019 -Sep. 25 2019)*
- Teaching assistance and lecturer at Arab American University / (2009 – 2013) teaching different courses and different laps at the physics department (General and Medical Physics).*
- Works at Palestinian Curriculum Development Center (Worked with a team in preparing the Physics book for Tawjehi/ (2005 – 2007)*
- Teaching Tawjehi (Physics) 1996-2015.*

Teaching expertise:

- *Advanced quantum mechanics Ph.D. 422932*
- *Advanced atomic and molecular physics master 422540*
- *General Physics 1 10221101*
- *General Physics2 10221102*
- *Mathematical Physics 1 10221313*
- *Atomic and molecular physics 10221361*
- *Modern Physics 1 10221242*
- *Geometrical Optics 7107102*
- *Acoustics 7241207*
- *Biomedical Physics 7108101*
- *Remedial Physics 7001002*
- *Advanced Physics lab 2-10221313*
- *Geometrical Optics Lab 7107112*
- *General physics lab for engineers 10221115*
- *General physics lab2 10221108*
- *10221490 التدريب العملي*

Publications:

1. *Approximate solution to the time-dependent Kratzer plus screened Coulomb potential in the Feinberg-Horodecki equation, Chinese physics b, 2020, 29(6): 060303 (IOP)*
2. *Momentum eigensolutions of Feinberg-Horodecki equation with time-dependent screened Kratzer-Hellmann potential, JAMP, 2020, 8(7):1207-1221*
3. *Exact quantized momentum eigenvalues and eigenstates of a general potential mode, JAMP, 2020, 8(7), 1434-1447*
4. *Feinberg-Horodecki exact momentum states of improved deformed exponential-type potential, JAMP, 2020, 8(8): 1496-1506*
5. *Approximate non-relativistic bound state solutions for certain molecular potentials, JAMP, 2021, 9(4), 1-13.*

6. *Approximate Low-Lying Energies of the Quantum Gaussian Well: A Four Parameters Potential Fitting, Jordan Journal of physics, April 2021, accepted*

Thesis Supervision and examination:

- 1) *The Effects of Rashba Spin-orbit Interaction and Magnetic Field on the Thermo-magnetic Properties of an Electron Confined in a Cylindrical Semiconductor Quantum Dot (2021)*
Internal examiner.
- 2) *Structural, electronic, magnetic and elastic properties in the Full-Heusler Compounds: Co₂CrAl, Cr₂MnSb using FP-LAPW Method (2021)* **Internal examiner.**