

CURRICULUM VITAE

2021

Address

Department of Physics
Faculty of Science
Hashemite University
Zarqa – Jordan
P.O. Box 330127, Zarqa 13133, Jordan
Tel. (work) +962 (5) 3903333, **Ext.** 4917
Mobile +962-79-9453045
E-Mail: adel_shaheen@hu.edu.jo

Personal Data

Name: Adel Ahmad Shaheen
Date of Birth: November 28, 1970
Place of Birth: Amman, Jordan
Nationality: Jordanian
Marital status: Married
Profession: Assistant Professor of physics

Education

- 1- Ph.D. Physics:** Experimental solid-state physics, University of Jordan, Jordan (2010).
Thesis title: Optical and Electrical Behavior of $\text{Se}_{90}\text{In}_{10-x}\text{Sn}_x$ ($x = 2, 4, 6$ and 8) Semiconducting Glasses
- 2- M.Sc. Physics:** Experimental Solid State, AL al-Bayt University, Jordan (1998).
Thesis title: The Optical Properties for the Normal Incidence and Ellipsometric Modes of BiCu Multilayer Systems
- 3- B. Sc. Physics:** Yarmouk University, Jordan (1992).

Teaching Experience

- 1- **Assistant Professor** (September 2016 to present), Physics department, Hashemite University, Zarqa - Jordan.
- 2- Visiting assistant Professor (January 2020 to May 2020), Physics and Math department, Qatar University, Doha-Qatar
- 3- **Tutor** (September 2012 to September 2016), Physics department, Hashemite University, Zarqa - Jordan.
- 4- **Lecturer** (January 2009 to September 2012), Physics department, Hashemite University, Zarqa - Jordan.
- 5- **Teaching assistant** (October 2004 – December 2008), Physics department, Hashemite University, Zarqa - Jordan.
- 6- **Teaching assistant** (February 2000 – October 2002), Physics department, Hashemite University, Zarqa - Jordan.
- 7- **Teaching assistant** (October 1999 – February 2000), Physics department, University of science and technology, Irbid – Jordan
- 8- Physics Teacher (September 1993 – September 1999). The Jordanian ministry of education, Jordan
- 9- **Lap technician** (September 1992 – September 1993)
Quality control department, The Jordanian electrical wires factory

Courses Taught

- **Undergraduate Courses**
 1. Mathematical Physics I
 2. Mathematical Physics II
 3. Optics
 4. Electromagnetic I
 5. Electromagnetic II
 6. Modern Physics I

7. Modern Physics II
8. General Physics I
9. General Physics II
10. General Physics III
11. General Physics Lab I
12. General Physics Lab II
13. General Physics Lab III
14. Electronics Lab
15. Advance Lab I
16. Advance Lab II

Research Interest

My research is based on investigation the optical and electrical (AC and DC) behavior of semiconductor materials using different experimental techniques such as Impedance spectroscopy, photo-spectrometer, FTIR, X-Ray diffraction, SEM and DSC, in addition, Gamma radiation effect is involved.

Supervision /Co-Supervision of Graduate Students

M.Sc. Students

1. M.Sc thesis/ Supervisor “Electrical impedance and optical parameters of silver phosphate glasses systems doped with silver iodide” by Hala Sami Ghannam Hashemite University (awarded 2019).
2. M.Sc thesis/ Supervisor “Electrical and Optical properties of Silver Phosphate glasses systems doped with Sodium Iodide” by Sherehan Eid Qabajeh, Hashemite University (awarded 2019).

Thesis Examining Committees

- 1- Mohammad Sayyed, Hashemite University (2019)
- 2- Lina Hani Al-Azhari, Hashemite University (2019)

Publications

1. **Adel A. Shaheen**, Mousa M.A. Imran, Omar A. Lafi, Moh'd I. Awadallah, Ma'rouf K. Abdullah, "Optical properties of a- $\text{Se}_{90}\text{In}_{10-x}\text{Sn}_x$ chalcogenide thin films before and after gamma irradiation" *Radiation Physics and Chemistry* 79 (2010) 923–928.
2. **Adel A. Shaheen**, Mousa M.A. Imran, Omar A. Lafi, Ma'rouf K. Abdullah, "Experimental investigation on some electrical parameters of $\text{Se}_{90}\text{In}_{10-x}\text{Sn}_x$ ($x = 2, 4, 6, \text{ and } 8$) chalcogenide glasses before and after γ - irradiation", *Current Applied Physics*, 11 (2011) 492-497.
3. M. M. A. IMRAN, O. A. LAFI, N. MEHTA, A. F. ALSHWABKEH, **A. A. SHAHEEN**, A. ALBQOOR, "Physical Ageing Effect IN $\text{Se}_{75}\text{Te}_{20}\text{In}_5$ Chalcogenide Glasses" *Chalcogenide Letters*, 14, 5, (2017) 203 – 209
4. Ahmad I. Ayesh, Mohammad Abu Haija, **Adel Shaheen**, Fawzi Banat, "Spinel ferrite nanoparticles for H₂S gas sensor" *Applied Physics A*, 123, (2017)
5. **A. Shaheen**, M. Maghrabi, F. Salman, Z. Khattari. "Effects of temperature and frequency on the dielectric properties of AgPO_3 glass" *Applied Physics A*, 124, (2017).
6. Feras AFANEH, Mohammed OKASHA, Khalil J. HAMAM, **Adel SHAHEEN**, Mufeed MAGHRABI, Bashar LAHLOUH, Hassan K. JUWHARI, "The γ -irradiation Effect on the Optical Properties of CdTe Thin Films Deposited by Thermal Evaporation Technique" *MATERIALS SCIENCE*, 24,1 (2018)
7. Saleem I Qashou, Z Khattari, M Rashad, A A A Darwish and **A. Shaheen** "Structural, optical and dielectric properties of n-type organic N, N'- dimethyl-3, 4, 9, 10-perylenedicarboximide thin films: effects of annealing" *Material Research Express*, 8, 6 (2019)
8. **Adel Shaheen**, Mohammad A. Haija, Mariem Chamakh Ghada A. I. Assayed, Fawzi Banat, Ahmad I. Ayesh "Fabrication and characterization of poly (vinyl alcohol)—Glycerol—Spinel ferrites flexible membranes" *Journal of applied polymers science*, 48821 (2019)

