

Jordan University of Science and Technology
Faculty of Science and Arts
Department of Physics

Name and Academic Rank:

Emad Abdelsalam Awad Almahmoud,
Full time Lecturer

Education, discipline, institution, and year:

- Ph.D. in Physics, Condensed Matter Physics, University of Arkansas, USA, 12/12/2007.
- M.S. in Physics, (Solid State Physics) Yarmouk University, Jordan, 1999
- B.Sc. in Physics, Yarmouk University, Irbid, Jordan, 1994.

Academic experience:

- 2018-present: Full time Lecturer, Jordan University of Science and Technology, Jordan
- 2009-2018: Assistant Professor, Umm Al-Qura university, KSA
- 2008-2009: Assistant Professor, Al-Albait University, Jordan
- 2004-2008: Research Assistant, Department of Physics, University of Arkansas, USA
- 2003-2004: Teaching Assistant, Department of Physics, University of Arkansas, USA
- Laboratory Instructor, Department of Physics, Jordan University of Science and Technology, Irbid, JORDAN. August 1999-August 2003.

Principal Publications and presentations from the Last Five Years:

- A Al-Sharif, E Almahmoud, J Talla, K Al-Khaza'leh, A Ghozlan, Q Samara, " Influence of external electric field on electronic and magnetic properties of doped boron nitride monolayer: Theoretical study " Computational Condensed Matter 25, e00513 (2020)
- K Al-Khaza'leh, EA Almahmoud, JA Talla, " A novel bionanosensor for dopamine detection based on titanium doped single walled boron nitride nanotube: Density functional theory", Chinese Journal of Physics 68, 204-213 (2020)
- R Omari, E Almahmoud, JA Talla, K Al-Khaza'leh, A Ghozlan, A Al-Diabat, " Influence of substitutional doping on the electronic properties of carbon nanotubes with Stone Wales defects: density functional calculations", Fullerenes, Nanotubes and Carbon Nanostructures, 1-13 (2020).
- K Al-Khaza'leh, EA Almahmoud, JA Talla, " Glucose/Fe-doped C70 fullerene hybrid biosensor: theoretical study", Fullerenes, Nanotubes and Carbon Nanostructures, 1-8 (2020).
- M Serhan, M Abusini, E Almahmoud, R Omari, K Al-Khaza'leh,, " The electronic properties of different chiralities of defected boron nitride nanotubes: theoretical study", Computational Condensed Matter 22, e00439 (2020).
- EA Almahmoud, JA Talla, H Abu-Farsakh,, " Electronic properties of defective boron nitride mono-sheets under the influence of an external electric field", Semiconductor Science and Technology 35 (2), 025014 (2020).
- EA Almahmoud, JA Talla, H Abu-Farsakh,, " Influence of uniaxial strain on the electronic properties of doped graphene mono-sheets: a theoretical study", Materials Research Express 6 (11), 115617 (2019).
- E Almahmoud, JA Talla" Band gap tuning in carbon doped boron nitride mono sheet with Stone-Wales defect: a simulation study", Materials Research Express 6 (10), 105038 (2019).

Scientific and Professional organizations membership:

- Member of the American Physics society (2004-2008).

