

Curriculum Vitae

Personal Info

Name: Ahmad Abdel Karim Abbas Mubarak.

Date and Place of Birth: October 11, 1975 in Kuwait.

Nationality: Jordanian.

Academic Rank: Associate Professor.

Major Specialization: Solid State Physics.

Minor Specialization: Material science.

Research interests: Surface Science, Magnetism, Electronic, Optical, Thermoelectric properties and Catalysis.

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Education:

Oct. 2005 – Jan. 2010 Ph. D. in solid state, The University of Jordan, Amman, Jordan, under the supervision of Prof. Dr. Jamil Khalifeh.
Thesis Title: “Effect of hydrogen on electronic and magnetic structures of transition metal surfaces”
GPA: 3.71/4.00 (Excellent)

Oct 1998 – Jan 2001 M. Sci. D. in physics, The University of Jordan, Amman, Jordan.
Comprehensive Exam
GPA: 3.32/4.00 (V. Good)

Oct 1994 – Jan 1998 B.A. Sci. D. in physics, Mu`tah University, Karak, Jordan.
GPA: 76.67% (very good)

Professional Experience

- Sep. 2014 - Present Associate Professor.
King Abdulaziz University – Rabigh Branch
Rabigh College of Science and Arts, Physics Department.
- 2010 – Sep. 2014 Assistant Professor.
King Abdulaziz University – Rabigh Branch
Rabigh College of Science and Arts, Physics Department.
- 2007 – 2009 Part-time Lecturer
The University of Jordan, Amman, Jordan
Faculty of Science, Physics Department.

Skills

- 1- Award of Excellence in the field of scientific publishing for faculty members from King Abdulaziz University in 2010-2016.
- 2- Quality Management System and Internal Audit ISO 9001:2008 issued by King Abdulaziz University – Faculty of Engineering – Rabigh in April 2012.
- 3- INTEL for Future Education issued by Ministry of Education in Jordan in February 2005.
- 4- International Computer Driving License (ICDL) in July 2003 issued by the UNESCO Cairo office.
- 5- Wien2k code by Linux clusters.
- 6- Computer maintenances: Software & hardware.
- 7- All published articles are in the ISI journals and impacted.

Published Research

- 1- **A.A. Mubarak**, “The mechanical, optical and thermoelectric properties of $MCoF_3$ (M = K and Rb) compounds”, *Modern Physics Letters B* 31, No. 6 (2017) 1750033.
- 2- **A.A. Mubarak**, “The First-principle study of the electronic, optical and thermoelectric properties of $XTiO_3$ (X = Ca, Sr and Ba) compounds”, *International Journal of Modern Physics B* 30, No. 20 (2016) 1650141.
- 3- Farida Hamioud, Ghadah S. AlGhamdi, Saleh Al-Omari and **A. A. Mubarak**, “Ab initio investigation of the structural, electronic, magnetic and optical properties of the perovskite $TlMnX_3$ (X = F, Cl) compounds”, *International Journal of Modern Physics B* 30 (2016) 1650031.
- 4- **A.A. Mubarak**, “The elastic, electronic and magnetism structure of the MAl and M_3Al (M= Fe and Ni) alloy with and without hydrogen atoms”, *Journal Magnetism Magnetic Materials* 401 (2016) 816–822.
- 5- S. Al-Omari, **A. A. Mubarak**, M. Al-Noaimi, F. Afaneh, A. Aqili, I. Hamarneh and N. Mustaph, “Multielemental analysis of pharmaceuticals derived from plant seeds by energy dispersive X-ray fluorescence spectrometry”, *INSTRUMENTATION SCIENCE AND TECHNOLOGY* 44, NO. 1, (2016) 98–113.
- 6- **A.A. Mubarak**, Saleh Al-Omari, “First-principles calculations of two cubic fluoropervskite compounds: $RbFeF_3$ and $RbNiF_3$ ”, *Journal Magnetism Magnetic Materials* 382 (2015) 211–218.
- 7- M.A. Saeed, I. Hossain, Nursyazuanie, H. Hagiran and **A.A. Mubarak**, “Thermoluminescence response of multimode fluorine-doped SiO. Optical fibers and TLD 100 with 6 Mega Volt photon irradiation”, *High energy chemistry*, 49, No. 2 (2015).
- 8- **A.A. Mubarak**, “The elastic, electronic and optical properties of $RbCaX_3$ (X = F, Cl) compounds”, *International Journal of Modern Physics B* 28, No. 28 (2014) 1450192.

- 9- **A.A. Mubarak**, Mahmoud AlElaimi, “Hydrogen adsorption on β -TiAl (001) and Ni/TiAl (001) surfaces”, Surface Review and Letter 21 No. 2 (2014) 1450034.
- 10- **A.A. Mubarak**, “Ab initio study of the structural, electronic and optical properties of the fluoropervskite SrXF_3 (X= Li, Na, K and Rb) compounds”, Computational Material Science 81 (2014) 478-482.
- 11- **A.A. Mubarak**, “The electronic and magnetic structures of $\text{TMAI}_5\text{H}_{12}$ systems”, Surface Review and Letter 20, Nos. 3 & 4 (2013) 1350025.
- 12- M. A. Saeed, Norasyidah Jenal Zainal, I Hossain, M. A. Javed, and **A. A. Mubarak**, “Measurements of natural radionuclides in Malaysia by gamma spectrometry”, J. Appl. Spectroscopy 81, No. 3 (May-June) 2014.
- 13- **A.A. Mubarak**, “Effects of hydrogen adsorption on the electronic and magnetic structures for variant terminations of NbRu (001) and M/NbRu (001) surfaces (M=Fe, Ni)”, Journal Magnetism Magnetic Materials 353 (2013) 131-138.
- 14- **A.A. Mubarak** and A.A. Mousa. “The electronic and optical properties of the fluoroperovskite BaXF_3 (X= Li, Na, K, and Rb) compounds”, Computational Material Science 59 (2012) 6-13.
- 15- **A.A. Mubarak**, B.A. Hamad, and J.M. Khalifeh. “Energetics, structural and magnetic ordering of H/Fe/M(001) , (M= Cu, Ag) systems”, Journal Magnetism Magnetic Materials 323 (2011) 383–388.
- 16- **A.A. Mubarak**, B.A. Hamad, and J.M. Khalifeh. “The influence of hydrogen on the electronic and magnetic structures of TM(001) (TM=Fe, Co, Ni, and Cu) surfaces and interfaces: Ab-initio calculation”, Journal Magnetism Magnetic Materials 322 (2010) 780–785.

Taught courses:

#	Course title	Academic year	#	Course title	Academic year
1-	General Physics I	First Year	2-	General Physics Lab 1	Second Year
3-	Modern Physics I	Second Year	4-	Modern Physics II	Third Year
5-	Classical Mechanics I	Second Year	6-	Classical Mechanics II	Third Year
7-	Electromagnetism I	Third Year	8-	Electromagnetism I	Third Year
9-	Quantum Mechanics I	Third Year	10	Quantum Mechanics II	Fourth Year
11	Physics Education Training	Fourth Year	12	Statistical Mechanics	Fourth Year

I welcome requisition of any detailed information that you require from my side in regard of having full information about me from referee below.

1- Name: Prof. Dr. Jamil M. Khalifeh.

Academic Rank: Professor

Physics Department

University of Jordan

Amman-11942, Jordan

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2- Name: Dr. Saleh Al-Omari.

Academic Rank: Associate Professor

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The Hashemite University

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If you have any further questions, please don't hesitate to contact me.

Best regard,

Dr. Ahmad A. Mubarak.

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