



## Mahmoud Hatem Saleh

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### Education

2011	<b>Doctor of Philosophy</b> , Physics, The University of Jordan, Amman, Jordan. <ul style="list-style-type: none"><li>“Study of structural, optical and electrical properties of <math>PbI_2</math> thin films prepared by flash – evaporation technique”.</li></ul>
2004	<b>Master of Science</b> , Physics, Al al-Bayt University, Amman, Jordan. <ul style="list-style-type: none"><li>“Magnetic Characteristics of Doped Barium Ferrite System”</li></ul>
2001	<b>Bachelor of Science</b> , Physics, Al al-Bayt University, Amman, Jordan.

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### Teaching Experience

2001-2002	Teaching Assistant, The University of Jordan, Amman, Jordan.
2002-2008	Physics and Science Teacher, Schools in Ministry of Education and Teaching.
2008-2009	Teaching Assistant, The University of Jordan, Amman, Jordan.
2010-2015	lecturer full time, Al-Balqa Applied University, Amman, Jordan.
2015-2018	Assistant Professor, Al-Balqa Applied University, Amman, Jordan.
2018-present	Associate Professor, Al-Balqa Applied University, Al-Salt, Jordan.

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### Recent Publications

1	<b>Mahmoud H. Saleh</b> , Mousa M. Abdul-Gader Jafar, Basim N. Bulos and Tariq M. F. Al-Daraghme, (2014). <b>Determination of Optical Properties of Undoped Amorphous Selenium (a-Se) Films by Dielectric Modeling of Their Normal-Incidence Transmittance Spectra</b> , <i>Applied Physics Research</i> , <b>6</b> (6), 10-44.
2	Mousa M. Abdul-Gader Jafar, <b>Mahmoud H. Saleh</b> , Mais Jamil A. Ahmad, Basim N. Bulos and Tariq M. F. Al-Daraghme, (2016). <b>Retrieval of optical constants of undoped amorphous selenium films from an analysis of their normal-incidence transmittance spectra using numeric PUMA method</b> , <i>Journal of Materials Science: Materials in Electronics</i> , <b>27</b> (4), 3281-3291.
3	<b>Mahmoud H. Saleh</b> , Nidal M. Ershaidat, Mais Jamil A. Ahmad, Basim N. Bulos and Mousa M. Abdul-Gader Jafar, (2017). <b>Evaluation of spectral dispersion of optical constants of a-Se films from their normal-incidence transmittance spectra using Swanepoel algebraic envelope approach</b> , <i>Optical Review</i> , <b>24</b> (3), 260-277.
4	Mais Jamil A. Ahmad, Mousa M. Abdul-Gader Jafar, <b>Mahmoud H. Saleh</b> , Khawla M. Shehadeh, Ahmad Telfah, Khalil A. Ziq and Roland Hergenröder, (2017). <b>Evaluation of kinetic parameters and thermal stability of melt-quenched <math>Bi_xSe_{100-x}</math> alloys (<math>x \leq 7.5</math> at %) by non-isothermal thermogravimetric analysis</b> , <i>Applied Microscopy</i> , <b>47</b> (3), 110-120.



5	Tariq M. Al-Daraghme, <b>Mahmoud H. Saleh</b> , Mais Jamil A. Ahmad, Basim N. Bulos, Khawla M. Shehadeh and Mousa M. Abdul-Gader Jafar, (2018). <b>Electrical transport mechanisms and photoconduction in undoped crystalline flash-evaporated lead iodide thin films</b> , <i>Journal of Electronic Materials</i> , <b>47</b> (3), 1806-1818.
6	<b>Mahmoud H. Saleh</b> , (2018). <b>Optical constants determination of thermally-evaporated undoped lead iodide films from transmission spectra using the PUMA method</b> , <i>Jordan Journal of Physics</i> , <b>11</b> (3), 181-191.
7	M. Abu-Kharma, <b>Mahmoud H. Saleh</b> , Z. M. Elimat and Wasan J. Kadhem, (2019). <b>The Collision-Induced Absorption Spectra of Hydrogen Complexes in the Second Overtone Band</b> , <i>Jordan Journal of Physics</i> , <b>12</b> (3), 223-236.
8	Mousa M. Abdul-Gader Jafar, <b>Mahmoud H. Saleh</b> , Tariq M. Al-Daraghme, Mais Jamil A. Ahmad, Maryam A. AbuEid, Nidal M. Ershaidat, and Basim N. Bulos, (2019). <b>Structural, stoichiometric and optical constants of crystalline undoped lead iodide films prepared by the flash-evaporation method</b> , <i>APPLIED PHYSICS A-MATERIALS SCIENCE &amp; PROCESSING</i> , <b>125</b> :672.

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**Conferences/ Workshops/ Seminars:**

2017	International Conference / Humboldt Kolleg: “ <i>Jordanian Life Sciences for Sustainable Development</i> ”, (2017). Oral Presentation: <b>Evaluation of kinetic parameters and thermal stability of melt-quenching Bi<sub>x</sub>Se<sub>100-x</sub> alloys (x ≤ 7.5 at %) by non-isothermal thermogravimetric analysis (TGA)</b> , Mais Jamil A. Ahmad, Mousa M. Abdul-Gader Jafar, Mahmoud H. Saleh, Khawla M. Shehadeh, Ahmad Telfah, Khalil A. Ziq and Roland Hergenröder.
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