**Curriculum Vitae**

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**Personal Information**

Name: Mohammad H. Abu Mhareb

Date of Birth: 29-9-1984

Place of Birth: Zarqa-Jordan

Marital Status: Married

Nationality: Jordanian

Mobile: 00962786503058; 00962795632789

Email: [mmhareb@hotmail.com](mailto:mmhareb@hotmail.com), mmhareb@gmail.com

Website

<https://scholar.google.com/citations?user=jXkWR3YAAAAJ&hl=en>

<https://www.researchgate.net/profile/Mohammad_Mhareb>

<http://www.researcherid.com/rid/G-4155-2014>

Scoups Author ID: 55991410800

Expertise: Medical Physics, Radiation Physics, Radiation Dosimetry, Material Science.

**Educational Qualifications:**

* Ph.D. Physics (Medical Physics) Universiti Teknologi Malaysia, Johor, Malaysia, 2015.
* M.Sc. (Medical Physics) University of Jordan, Amman, Jordan, 2009.
* B.Sc. (Physics) Hashemite University, Zarqa, Jordan, 2006.

**Thesis and Dissertation:**

* Attenuation of X-ray with Different Biological Tissues.
* Dosimetric Properties of Lithium Magnesium Borate Glasses Doped with Dysporsium and Phosphorus Oxide for Radiation Dose Measurement.

**Professional experience / Membership**

***PROFESSIONAL EXPERIENCE***

* 1 June 2008 –31 Augest 2008 – Medical Physicist (Training), radiology and nuclear medicine department, Royal Medical Service (RMS).
* 1 April 2009 –30 April 2009 – Medical Physicist (Training), radiotherapy department, King Hussein Cancer Center (KHCC).
* 14 December 2009 –30 April 2014 – Radiation Inspector, Radiation Protection Directorate, Jordan Nuclear Regulatory Commission (JNRC), Jordan.
* 1 May 2014 –present – Radiation Inspector, Radiation Protection Directorate, Energy and Minerals Regulatory Commission (EMRC), Jordan.
* 7 Febrauary 2013 –1 September 2015 – Graduate and Research Assisstance, Department of Physics, Faculty of Science, Universiti Teknologi Malaysia

***PROFESSIONAL MEMBERSHIP***

1. Member, Jordanian Association for Medical Physics (JAPM), 2009.

**Publication:**

**H INDEX :5 (19 Documents) (Citation 57)**

**ISI Journal: 19 Documents**

**2016**

1. **M.H.A. Mhareb**, S. Hashim, S.K. Ghoshal, M.J. Bqoor, A.I. Hamdan, Y.S.M. Alajerami, M.A.Saleh, M.K.B. Abdul Karim (2016). The effect of Dy2O3 impurities on the physical, optical and thermoluminescence properties of lithium borate glass. Journal of Luminescence. Acceptance **(Impact Factor 2.7; Q1 in Optics)**.
2. N.A. Razak, S.Hashim, Y.S.M. Alajerami, **M.H.A. Mhareb,** S.A. Azizan, and N. Tamchek (2016). Impact of Eu3+ ions on physical and optical parameters of Li2O-Na2O-B2O3 glass. Chines Journal of Chemical Physics. Acceptance **(Impact Factor 0.5; Q4 in Material Science)**.

**2015**

1. **Mhareb, M. H. A.,** Hashim, S., Ghoshal, S. K., Alajerami, Y. S. M., Saleh, M. A., Azizan, S. A. B., and Karim, M. A. Influences of dysprosium and phosphorous oxides co-doping on thermoluminescence features and kinetic parameters of lithium magnesium borate glass. Journal of Radioanalytical and Nuclear Chemistry. 305:469-477 **(Impact Factor 1.4; Q1 in Nuclear Science & Technology)**.
2. **Mhareb, M. H. A.,** Hashim, S., Ghoshal, S. K., Alajerami, Y. S. M., Saleh, M. A., Razak, N. A. B., & Azizan, S. A. B. (2015). Thermoluminescence properties of lithium magnesium borate glasses system doped with dysprosium oxide. Luminescence. Feb- 2015. 30(8):1330-1335 **(Impact Factor 1.52; Q4 in Biochemistry and Molecular Biology).**
3. Hashim, S., **Mhareb, M. H. A.,** Ghoshal, S. K., Alajerami, Y. S. M., Bradley, D. A., Saripan, M. I., & Alzimami, K. (2015). Luminescence characteristics of Li2O–MgO–B2O3 doped with Dy3+ as a solid TL detector. Radiation Physics and Chemistry. 116: 138-141 **(Impact Factor 1.380; Q1 in Nuclear Science & Technology).**
4. Razak, N. A., Hashim, S., **Mhareb, M. H. A.,** & Tamchek, N. (2015). Photoluminescence and thermoluminescence properties of Li2O‐Na2O‐B2O3 glass. *Luminescence*. In press. Aug- 2015. DOI 10.1002/bio.2902 **(Impact Factor: 1.52; Q4 in Biochemistry and Molecular Biology).**
5. **Mhareb, M. H. A.,** Hashim, S., Ghoshal, S. K., Alajerami, Y. S. M., Saleh, M. A., Maqableh, M. M. A., & Tamchek, N. (2015). Optical and erbium ion concentration correlation in lithium magnesium borate glass. Optik-International Journal for Light and Electron Optics. 126: pg 3638-3643 **(Impact Factor 0.68; Q4 in Optics).**
6. Saleh, M. A., Ramli, A. T., Bin Hamzah, K., Alajerami, Y., **Mhareb, M. H. A.,** Aliyu, A. S., & Hanifah, N. Z. H. B. A. (2015). Natural environmental radioactivity and the corresponding health risk in Johor Bahru District, Johor, Malaysia. Journal of Radioanalytical and Nuclear Chemistry. 303: pg 1753-1761 **(Impact Factor 1.4; Q1 in Nuclear Science & Technology)**.
7. Saleh, M. A., Ramli, A. T., bin Hamzah, K., Alajerami, Y., **Mhareb, M.,** & Saeed, I. (2015). Prediction of terrestrial gamma dose rate based on geological formations and soil types in the Johor State, Malaysia. Journal of environmental radioactivity. 148: pg 111-122. **(Impact factor 2.5; Q2 in Environmental Sciences).**

**2014**

1. [**M.H.A. Mhareb**](http://www.sciencedirect.com/science/article/pii/S0925346714003255), [S. Hashim](http://www.sciencedirect.com/science/article/pii/S0925346714003255), [S.K. Ghoshal](http://www.sciencedirect.com/science/article/pii/S0925346714003255), [Y.S.M. Alajerami](http://www.sciencedirect.com/science/article/pii/S0925346714003255), [M.A. Saleh](http://www.sciencedirect.com/science/article/pii/S0925346714003255), [R.S. Dawaud](http://www.sciencedirect.com/science/article/pii/S0925346714003255), [N.A.B. Razak](http://www.sciencedirect.com/science/article/pii/S0925346714003255), [S.A.B. Azizan](http://www.sciencedirect.com/science/article/pii/S0925346714003255) (2014). Impact of Nd3+ ions on physical and optical properties of Lithium Magnesium Borate glass. 37: 391-397. **(Impact Factor 2.075; Q2 in Optics).**
2. **M.H.A. Mhareb**, S. Hashim, A.S. Sharbirin, Y.S.M. Alajerami, R.S.E.S. Dawaud, N. Tamchek. Physical and Optical Properties of Li2O-MgO-B2O3 doped with Dy3+. Optics and Spectroscopy. 117: 49-55. **(Impact Factor 0.72; Q4 in Optics & Spectroscopy).**
3. [Y.S.M. Alajerami](http://www.sciencedirect.com/science/article/pii/S0022231314003470), [S. Hashim](http://www.sciencedirect.com/science/article/pii/S0022231314003470), [S.K. Ghoshal](http://www.sciencedirect.com/science/article/pii/S0022231314003470), [D.A. Bradley](http://www.sciencedirect.com/science/article/pii/S0022231314003470), [**M. Mhareb**](http://www.sciencedirect.com/science/article/pii/S0022231314003470), [M.A. Saleh](http://www.sciencedirect.com/science/article/pii/S0022231314003470) (2014). Copper doped borate dosimeters revisited. Journal of Luminescence. 155: 141-148. **(Impact Factor 2.367; Q1 in Optics).**
4. Hashim, S., Alajerami, Y. S. M., Ramli, A. T., Ghoshal, S. K., Saleh, M. A., Kadir, A. A., & **Mhareb, M. H. A.** (2014). Thermoluminescence dosimetry properties and kinetic parameters of lithium potassium borate glass co-doped with titanium and magnesium oxides. Applied Radiation and Isotopes. 91, 126-130. **(impact Factor** **1.179; Q1 in Nuclear Science & Technology).**
5. Muneer Aziz Saleh , Ahmad Termizi Ramli, Yasser Alajerami, **Mohammad Hasan Abu Mhareb**, Abubakar Sadiq Aliyu, Hamman Tukur Gabdo, Nuraddeen Nasiru Garba (2014). Assessment of radiological health implicat from ambient environment in the Muar district, Johor, Malaysia Radiation Physics and Chemistry. 103: 243-252. **(Impact Factor 1.380; Q1 in Nuclear Science & Technology).**

1. [S.A. Azizan](http://www.sciencedirect.com/science/article/pii/S0022286014007534), [S. Hashim](http://www.sciencedirect.com/science/article/pii/S0022286014007534), [N.A. Razak](http://www.sciencedirect.com/science/article/pii/S0022286014007534), [**M.H.A. Mhareb**](http://www.sciencedirect.com/science/article/pii/S0022286014007534), [Y.S.M. Alajerami](http://www.sciencedirect.com/science/article/pii/S0022286014007534), [N. Tamchek](http://www.sciencedirect.com/science/article/pii/S0022286014007534) (2014). Physical and optical properties of Dy3+: Li2O–K2O–B2O3 glasses. Journal of molecular structure. 1076:20–25. **(Impact Factor 1.6; Q3 in Chemistry, Physical).**
2. [Raghda Saeif Eddin Said Dawaud](http://www.sciencedirect.com/science/article/pii/S0022286014006450), [Suhairul Hashim](http://www.sciencedirect.com/science/article/pii/S0022286014006450), [Yasser Saleh Mustafa Alajerami](http://www.sciencedirect.com/science/article/pii/S0022286014006450), [**M.H.A. Mhareb**](http://www.sciencedirect.com/science/article/pii/S0022286014006450)**,** [N. Tamchek](http://www.sciencedirect.com/science/article/pii/S0022286014006450) (2014). Optical and structural properties of lithium sodium borate glasses doped Dy3+ ions. [Journal of Molecular Structure](http://www.researchgate.net/journal/0022-2860_Journal_of_Molecular_Structure). 1075:113–117. **(Impact Factor 1.6; Q3 in Chemistry, Physical).**
3. R.S.E.S. Dawaud, S. Hashim, Y.S.M. Alajerami, **M.H.A. Mhareb**, M.M. Maqableh, N. Tamchek (2014). Structural and optical properties of lithium sodium borate glasses doped with Sm3+ ions. International Journal of Modern Physics B. 28: 1450182 **(Impact Factor 0.9; Q3 in Physics, Condensed Matter).**
4. M.M.A. Maqableh, S. Hashim, Y.S.M. Alajerami, **M.H.A. Mhareb,** R.S. Dawwud, A. Saidu (2014). The effect of europium oxide impurity on the optical and physical properties of lithium potassium borate glass. Optics and Spectroscopy. 117: 56-60. **(Impact Factor 0.559; Q4 in Optics & Spectroscopy).**
5. A Reduan, S Hashim, Z Ibrahim, YSM Alajerami, MHA Mhareb, M Maqableh, RSES Dawaud, N Tamchek (2014). Physical and optical properties of Li 2 O–MgO–B 2 O 3 doped with Sm 3+. Journal of Molecular Structure. 1060: 6-10. **(Impact Factor 1.6; Q3 in Chemistry, Physical)**

**Conference/Training Course:**

***CONFERENCE:***

* S. Hashim, **M. H. A. Mhareb,** S. K. Ghoshal, Y. S. M. Alajerami, M. I. Saripan, D. A. Bradley. Luminescence features of dysprosium and phosphorus oxide co-doped lithium magnesium borate glass. 13th International Symposium on Radiation Physics (ISRP13), 7-11 September 2015, Beijing, China.
* S. Hashim, **M. H. A. Mhareb,** S. K. Ghoshal, Y. S. M. Alajerami, R. S. Dawaud, N. A. Razak, S. A.Azizan, D. A. Bradley, M. I. Saripan, N.Tamchek, K.Alzimami. Luminescence Characteristics of Li2O-MgO-B2O3 Doped with Dy3+ as a Solid TL Detector. [9th International Tropical Meeting on Industrial Radiation and Radioisotope Measurement Applications](http://icda.fjfi.cvut.cz/) (IRRMA-9). 6 - 11 July 2014, Valencia, Spain.
* **Mohammad Abu Mhareb,** Suhairul Hashim, Sib Ghoshal, Yasser Alajerami. Optical and physical properties of lithium magnesium borate glass co-doped with Er3+ and Sm3+. 2nd International Science Postgraduate Conference 2014 (ISPC2014) Faculty of Science, Universiti Teknologi Malaysia. 10-12 March 2014, Johor, Malaysia.
* **M.H.A. Mhareb,** S. Hashim, S.K. Ghoshal, A.R.A. Hamid, Y.S.M. Alajerami, M.M.A. Maqableh, R.S. Dawaud. Optical and Physical Properties of Lithium Magnesium Borate Glasses Doped with Er3+. The 4th International Conference and Workshops on Basic and Applied Sciences and 11th Regional Annual Fundamental Science Symposium 2013 (ICOWOBAS-RAFSS 2013). 3-5 Septemper 2013. Johor, Malaysia.

***Training Course***

* Training Course (Autharization and Inspection in nuclear Medicene) held in Viena, Autaria, 4-8, April 2016.
* Training Course (Advance Control List) held in Amman, Jordan, 10-11, December 2012.
* Training Course (Compliance Assurance Training Aligned to The Regulation for The Safe Transport of Radioactive Material) held in Amman, Jordan 13-24 May 2012.
* Training Course (Physical Protection and Security Management of Radioactive Sources) held in Amman, Jordan 31 Jan – 2 Feb 2012.
* Training Course (Orphan Source Search) held in Manila, Philippines 7-11 Nov 2011.
* Workshop (Chemical, Biological, Radiological, and Nuclear) held in Al Zarqa, Jordan 19-31 June 2011.
* Training Course (Control of Public Exposure Due to Radioactive Releases to The Environment) held in Amman, Jordan 10-13 May 2011.
* Training Course (The Obligation of Regulatory Commissions in The Field of Radiation Protection) held in Amman, Jordan 11-15 July 2010.
* Training Course (ASNT NDT level II in Radiographic Testing) held in Amman, Jordan 18-29 October 2009.

**Teaching Activities**

* Lecturer in radiation protection training course in radiation protection directorate, Jordan Nuclear Regulatory Commission, 2010-2013.
* Graduate and research assistance in Department of physics, Faculty of Science, Universiti Teknologi Malaysia 2013-2015.

**Languages:**

Arabic: Mother Language.

English: Very good in reading, writing and speaking.

**Computer Skills:**

* All widows programs (excel, word, Power Point).
* Good hands in using internet.