

CURRICULUM VITAE

PERSONAL DATA

Name	Mohammad Wasef Marashdeh
Nationality	Jordanian
Position	Associate Professor
E-Mail	mwwmarashdeh@imamu.edu.sa
Phone	+966-112594537

EDUCATION

Year	Academic Degree	Institution
2010 – 2013	<i>Ph.D. Medical Physics</i>	University Sains Malaysia(USM).
2004 – 2006	<i>M.Sc. Medical Physics</i>	University Sains Malaysia(USM).
1999- 2003	<i>B.S. General Physics</i>	Al-albays University

WORK EXPERIENCE

Period	Position	Address
Feb 2007 – Feb 2010.	Lecturer of Physics and Mathematics	Imam Mohammad Ibn Saud Islamic University ,Riyadh- Kingdom of Saudi Arabia.
2011-2012	Assistant Lecturer of Physics/ Medical physics	School of Physics, Universiti Sains Malaysia (USM), Malaysia
Aug 2013 – Aug 2020.	Assistance Professor in Department of Physics	Imam Mohammad Ibn Saud Islamic University ,Riyadh- Kingdom of Saudi Arabia.
Aug 2020 – Now	Associate Professor in Department of Physics	Imam Mohammad Ibn Saud Islamic University ,Riyadh- Kingdom of Saudi Arabia.

RESEARCH INTERESTS

Radiation measurement, Phantom material, Monte carlo simulation, Radiation Detector, Medical Physics,

Medical Image Processing.

PUBLICATIONS

- 1- **MARASHDEH, M. W.**, HASHIM, R., TAJUDDIN, A. A., BAUK, S. and SULAIMAN, O. (2011) Effect of particle size on the characterization of binderless particleboard made from *Rhizophora spp.* mangrove wood for use as phantom material. **BioResources**, 6. Vol 6, No 4, P. 4028-4044.
- 2- **MARASHDEH, M.W.**, BAUK, S., TAJUDDIN, AA. and HASHIM, R. (2012) Measurement of mass attenuation coefficients of *Rhizophora spp.* binderless particleboards in the 16.59-25.26 keV photon energy range and their density profile using x-ray computed tomography. **Applied Radiation and Isotopes**. Vol 70, 4, P. 656–662. (**Awards: Top 20 Articles, in the Domain of Article 22304963, Since its Publication (2012)**).
- 3- Aldroobi, K. S. A., Shukri, A., Munem, E. M. E. A., Bauk, S., **Marashdeh, M. W.**, & Amin, Y. A. (2012). Determination of Cu, Zn and Pb in scalp hair from a selected population in Penang using the XRF method. **Paper presented at the AIP Conference Proceedings**.
- 4- Al-Omari, S., Alghezawi, N., Al-Noaimi, M., Aqili, A., Al-Hamarneh, I.F., **Marashdeh, M. W.** (2014). Observation on Symmetry Properties of Sodium Zinc (II)-2, 9, 16, 23-phthalocyanine Tetracarboxylate in Water: NaOH Solution. **Journal of fluorescence** 24, 835-839.
- 5- Alawiah, A., Bauk, S., **Marashdeh, M. W.**, Nazura, M., Abdul-Rashid, H., Yusoff, Z., Gieszczyk, W., Noramaliza, M., Adikan, F.M., Mahdiraji, G. (2015). The thermoluminescence glow curve and the deconvoluted glow peak characteristics of erbium doped silica fiber exposed to 70–130kVp x-rays. **Applied Radiation and Isotopes** 104, 197-202.
- 6- Alawiah, A., Bauk, S., **Marashdeh, M. W.**, Ng, K., Abdul-Rashid, H., Yusoff, Z., Gieszczyk, W., Noramaliza, M., Mahdiraji, G., Tamchek, N., (2015). Thermoluminescence glow curves and deconvoluted glow peaks of Ge doped flat fibers at ultra-high doses of electron radiation. **Radiation Physics and Chemistry** 113, 53-58.
- 7- Alawiah, A., Alina, M., Bauk, S., Abdul-Rashid, H., Gieszczyk, W., Noramaliza, M., Mahdiraji, G., Tamchek, N., Zulkifli, M., Bradley, D., **Marashdeh, M. W.** (2015). The thermoluminescence characteristics and the glow curves of Thulium doped silica fiber exposed to 10MV photon and 21MeV electron radiation. **Applied Radiation and Isotopes** 98, 80-86.

- 8- **Marashdeh, M.W.**, Al-Hamarneh, I.F., Munem, E.M.A., Tajuddin, A., Ariffin, A., Al-Omari, S., 2015. Determining the mass attenuation coefficient, effective atomic number, and electron density of raw wood and binderless particleboards of *Rhizophora spp.* by using Monte Carlo simulation. **Results in Physics**.5. 228-234.
- 9- **Marashdeh, M.**, Tajuddin, A., Bauk, S., and Hashim, R. (2017). Dosimetric evaluation of *Rhizophora spp.* binderless particleboard phantom for diagnostic X-ray energy. **Radiation Physics and Chemistry**, 136, 23-29.
- 10- Al-Hamarneh, I. F., **Marashdeh, M. W.**, Almasoud, F. I., and Alkaoud, A. (2017). Determination of gamma-ray parameters for polyethylene glycol of different molecular weights. **Nuclear Science and Techniques**, 28(11), 157.
- 11- Marwan Alshipli, Norlaili A. Kabir, Abd Aziz Tajuddin, Rokiah Hashim, and **M.W.Marashdeh** (2018).Evaluating the Physical Properties of Epoxy Resin as a Phantom Material to Mimic the Human Liver in Computed Tomography Applications. **Int'l Journal of Advances in Chemical Engg., & Biological Sciences** (IJACEBS) 5(1), 2349-1515.
- 12- Alshipli, M., Kabir, N. A., Hashim, R., **Marashdeh, M.** and Tajuddin, A. A. (2018). Measurement of Attenuation Coefficients and CT Numbers of Epoxy Resin and Epoxy-based *Rhizophora spp* Particleboards in Computed Tomography Energy Range. **Radiation Physics and Chemistry**. 149, 41-48.
- 13- **Mohammad W. Marashdeh** (2018). Effect of the LEGe detector collimators on K-series peaks and Compton scattering in XRF analysis using gamma ray. **Heliyon**. 4(8), e00724.
- 14- **MW Marashdeh**, A Abubaker, KM Suwais, M Alshipli, AA Oglat, AA Tajuddin (2019). Clustering technique to determinate signal-to-noise ratio of *Rhizophora spp.* binderless and araldite resin particleboard as phantom material on computed tomography images. **Journal of Physics: Conference Series**. 1248(1), 012016.
- 15- **Mohammad W Marashdeh**, Hanan Saleh (2019). Mass attenuation coefficient of olive peat material for absorbing gamma ray energy. **Nuclear Science and Techniques**. 30(7). 106.
- 16- **M. Marashdeh**, A. Abubaker, K. Suwais, M. Alshipli, A. Oglat, A. (2019). Tajuddin, Clustering technique to determinate signal-to-noise ratio of *Rhizophora spp.* binderless and araldite resin particleboard as phantom material on computed tomography images, **Journal of Physics: Conference Series, IOP Publishing**, pp. 012016.
- 17- **Marashdeh, M. W.** (2019). A Study of Photon Interaction with Phantom Material Made of *Rhizophora Spp.*

Binderless Particleboard in the Energy Range 59.54–356 keV. *Journal of Testing and Evaluation*, 49(3)

18- **Marashdeh, M.**, Ababneh, B., Lemine, O., Alsadig, A., Omri, K., El Mir, L., . . . Mattar, E. (2019). The significant effect of size and concentrations of iron oxide nanoparticles on magnetic resonance imaging contrast enhancement. *Results in Physics*, 15, 102651.

19- Akhdar, H., **M. Marashdeh**, and M. AlAqeel, Investigation of gamma radiation shielding properties of polyethylene glycol in the energy range from 8.67 to 23.19 keV. *Nuclear Engineering and Technology*, 2021.

20- Aladailah, M., Tashlykov, O., Shirmanov, I., Strugov, E., **Marashdeh, M. W.**, Abdelmunem, E., & Eke, C. (2022). Photon absorption capabilities of SiO₂–Na₂O–P₂O₅–CaO–MgO glasses. *Radiation Physics and Chemistry*, 190, 109814.