

MDI RESEARCH & PUBLICATIONS

Professor Bashar Issa

Academic year 2018/2019

Submitted Papers:

1. Title: Synthesis of Graphene oxide-Fe₃O₄ based nanocomposites using the mechanochemical method and in vitro magnetic hyperthermia.
Journal: Materials Science & Engineering C.
Authors: Ihab M. Obaidat, Aleksandr S. Kamzin, Bashar Issa, Venkatesha Narayanaswamy, Shilpee Jain, Sachin Latiyan, Chandan Srivastava, Hemant Kumar.
Submission date: April, 2019.
2. Title: Numerical simulation of transverse relaxation for magnetic perturbors under a mixture of all motional regimes: the distributed relaxation model.
Journal: Magnetic Resonance Imaging.
Authors: Bashar Issa, Kolja Them, Ihab M. Obaidat, Gary Liney, Yousef Haik.
Submission date: February, 2019.

Book Chapter:

Bashar Issa and Ihab M. Obaidat (April 3rd 2019). Magnetic Nanoparticles as MRI Contrast Agents [Online First], IntechOpen, DOI: 10.5772/intechopen.84649. Available from: <https://www.intechopen.com/online-first/magnetic-nanoparticles-as-mri-contrast-agents>

Paper Reviewer:

1. Journal of Physics D: Applied Physics – March 2019 "A standardisation protocol for accurate evaluation of specific loss power in magnetic hyperthermia" by Makridis, Antonios; Curto, Sergio; van Rhoon, Gerard; Samaras, Theodoros; Angelakeris, Makis
2. Nanotechnology – January 2019 "The future of magnetic hyperthermia for personalized medicine" by Cassani, Marco; Fernandes, Soraia; Silvestri, Niccolò

MSc Student Supervision:

University: United Arab Emirates University, College of Science, Department of Physics

Thesis Title: SIMULATION OF T₂ MRI RELAXATION ENHANCEMENT BY MAGNETIC NANOPARTICLES

Student Name: Yahia Adeeb Tawfiq Hamdan

Under the Supervision of Professor Bashar Afif Issa

Graduation Date: April 2019

MSc Student Examiner:

MSc Thesis submitted to NATIONAL INSTITUTE OF LASER ENHANCED SCIENCES (NILES), Cairo University, Cairo, Egypt

Thesis Title: "Modeling of ultrafast laser in inducing magnetic properties of nanoparticles"

Student Name: Khaled Ahmed Ali El-Said

Examiner: Professor Bashar Issa, University of Sharjah, Sharjah, UAE

Dr. Mohamed M Abdelfatah

Academic year 2018/2019

Publication; Scopus Journals

1. Kavaz E, Tekin HO, Agar O, Altunsoy EE, Kilicoglu O, Kamislioglu M, **Abuzaid M** et al. The Mass stopping power / projected range and nuclear shielding behaviors of barium bismuth borate glasses and influence of cerium oxide. Ceram Int. **2019 Accepted Article**
2. **Abuzaid M**, Abdelrazig A, Sulieman A, Alkhorayef M, Babikir E, Alonazi B, et al. Radiation dose to the paediatric undergoing diagnostic coronary angiography and percutaneous intervention procedures. Radiat Phys Chem. **2019, Accepted Article**
3. Elshami WE, **Abuzaid MM**, Guraya SS, David LR. Acceptability and potential impacts of innovative E-Portfolios implemented in E-Learning systems for clinical training. J Taibah Univ Med Sci. **2018** Dec 1;13(6):521–7. DOI: 10.1016/j.jtumed.2018.09.002

4. Dalah EZ, Mahdi O, Elshami W, **Abuzaid MM**, David LR, Mira OA, et al. Occupational doses to cardiologists performing fluoroscopically-guided procedures. *Radiat Phys Chem.* **2018**;153(August):21–6. DOI: 10.1016/j.radphyschem.2018.09.008
5. **Abuzaid MM**, Elshami W, Steelman C. Measurements of Radiation Exposure of Radiography Students During Their Clinical Training Using Thermoluminescent Dosimetry. *Radiation Protection Dosimetry.* **2018**; 179(3). DOI:10.1093/rpd/ncx261
6. Elshami W, **Abuzaid MM**, Mira O, Hamid MA. Variation of annual whole body occupational radiation exposure of medical workers in United Arab Emirates. *European Conference of Radiology, 2018.* “Poster Presentation”. DOI:10.1594/ecr2018/C-0940.

Publication:

1. **Mohamed M abuzaid**, Wiam Elshami ZN. Radiation Dose Reduction and Cancer Risk Estimation Associated with Upper Limbs Radiographic Examination by using Optimal Projections: A Phantom Study. *J Clin Diagnostic Res.* **2019**;13(1):15–7. DOI: 10.7860/JCDR/2019/39686.12511
2. **Abuzaid MM**, Elshami W, Hasan H. Knowledge and Adherence to Radiation Protection among Healthcare Workers at Operation Theater. *Asian J Sci Res.* 2018;12(1):54–9. DOI: 10.3923/ajsr.2019.54.59
3. Ali WM, Dalah EZ, Ahmed LH, **Abuzaid MM**. Modification of ^{99m}Tc-thyroid scan protocol to decrease the radiation dose to salivary glands. *J Clin Diagnostic Res.* **2018**;12(10):TC01–4. DOI: 10.7860/JCDR/2018/37216.12128
4. Omer F, **Abuzaid M**, Ali M, Elfadil M. Survey of health status and congenital abnormality detection among diabetic pregnant women using ultrasound. *Int J Med Sci Public Heal.* **2018**;7(11):675. DOI: 10.5455/ijmsph.2018.0413817052018
5. Elshami W, **Abuzaid M**, Ateeq E, Fozan S Al, Bensahraoui N, Zira D. Prevalence of repetitive stress injuries among radiological technologists in the United Arab Emirates. *American J of Diagnostic Imaging.* **2018**;3(1):12–7. DOI: 10.5455/ajdi.20180114095656.
6. **Abuzaid MM**, Elshami W, David L, Noorajan Z, Abdi A. Development and design of an undergraduate radiology teaching e-portfolio for clinical practice and professional development. *American J of Diagnostic Imaging.* **2018**;3(1):7–11. DOI:10.5455/ajdi.20171008024201.

Dr. Entesar Zawam Dalah

Academic year 2018/2019

Journal Publications

1. Moez Al Islam Ezzat Faris, Haitham Jahrami, Mohammed Mohammed, Hadia Radwan, **Entesar Dalah**, Hayder Hassan, Abdulmunhem Obaideen, Mohammad Madkour. Ramadan diurnal intermittent fasting reduces 3D MRI-measured visceral adiposity and modulates circulating adipokines in adults with obesity. Submitted to Diabetes Resaerch and Clinical Practice. (In Process)
2. Hussein M Elmehdi, **Entesar Z Dalah**, Komyor Bakhronov. Measurements of radon concentration in water in the United Arab Emirates and the associated health effects. Submitted to IEEE Xplore. (In Press)
3. Hussein M Elmehdi, **Entesar Z Dalah**, Almehdi M Ibrahim. Impact of flipped physics classes on the performance of engineering students: University of Sharjah case study. Submitted to IEEE Xplore. (In Press)
4. Walid Zgallai, Teye Brown, Asma Murada, Sara Ali, Amina Haji Khawla Khalil, Maryam Omran, Moez Al-Islam Faris, Abdulmunhem Obaideen, **Entesar Z. Dalah**. The application of deep learning to quantify SAT/VAT in human abdominal area. Submitted to IEEE Xplore. (In Press)
5. **Entesar Zawam Dalah**, Hiba Waleed Al-Dhubani, Hussein Elmehdi, Omar Adas, Mohammed Sammy Weis, Abdulmunhem Obaideen. University Hospital in Sharjah diagnostic reference levels for multi-detector CT examinations. Submitted to IEEE Xplore. (In Press)
6. **Entesar Zawam Dalah**. Quantifying dose-creep for skull and chest radiography using dose area product and entrance surface dose: phantom study. Radiation Physics and Chemistry. DOI.org/10.1016/j.radphyschem.2019.03.035. (In Press)
7. **Entesar Z. Dalah**, Hussein M. Elmahdi, Khalid S. Al Humaidan, Lucy Seerjian. Estimate of UAE commercial aircrew effective doses using CARI-6, EPCARD and SIVERT codes. Radiation Protection Dosimetry. DOI:10.1093/rpd/ncy280. (In Press)

8. **Entesar Z. Dalah**, Ousama Mahdi, Wiam Elshami, Mohamed M. Abuzaid, Leena R. David, Ola A. Mira, Abdulmunhem Obaideen, Hussein M. Elmahdi, D. A. Bradley. Occupational doses to cardiologists performing fluoroscopically-guided procedures. *Radiation Physics and Chemistry* 153 (2018) 21-26.
9. **Entesar Zawam Dalah**, Hiba Waleed Al-Dhubhani, Nisrin Mesfer Alshamarani, Sammy Weis, Ousama Mehdi, Abdulmunhem Obaideen. Correlation between multi-detector CT findings and angiography reported stenosis in symptomatic coronary artery disease patients: pilot study. *IEEE Xplore*. DOI: [10.1109/ICASET.2018.8376884](https://doi.org/10.1109/ICASET.2018.8376884)

Conference Publications

1. **Entesar Zawam Dalah**. Quantifying dose-creep for skull and chest radiography using dose area product and entrance surface dose: phantom study. 14th International Symposium on Radiation Physics held in October 7 – 11, 2019 in Cordoba, Argentina. (Oral Presentation).
2. Hussein Elmehdi, **Entesar Dalah**, Hiba Al-Dhubhani, Huda Alzoubi, Shahzadi Lohani. Estimation of organs effective dose in patients undergoing chest X-ray examinations using Monte Carlo Simulations. 14th International Symposium on Radiation Physics held in October 7 – 11, 2019 in Cordoba, Argentina. (Oral Presentation).
3. Hussein M Elmehdi, **Entesar Z Dalah**, Komyor Bakhronov. Measurements of radon concentration in water in the United Arab Emirates and the associated health effects. *Advanced in Science and Engineering Technology Conference* held in March 26 – 28, 2019 in Higher College of Technology Dubai, UAE. (Oral Presentation)
4. Hussein M Elmehdi, **Entesar Z Dalah**, Almehdi M Ibrahim. Impact of flipped physics classes on the performance of engineering students: university of Sharjah case study. *Advanced in Science and Engineering Technology Conference* held in April 8 – 10, 2019 in Higher College of Technology Dubai, UAE. (Oral Presentation)
5. Walid Zgallai, Teye Brown, Asma Murada, Sara Ali, Amina Haji Khawla Khalil, Maryam Omran, Moez Al-Islam Faris, Abdulmunhem Obaideen, **Entesar Z. Dalah**. The application of deep learning to quantify SAT/VAT in human abdominal area. *Advanced in Science and Engineering Technology Conference* held in March 26 – 28, 2019 in Higher College of Technology Dubai, UAE. (Oral Presentation)

6. **Entesar Zawam Dalah**, Hiba Waleed Al-Dhubani, Hussein Elmehdi, Omar Adas, Mohammed Sammy Weis, Abdulmunhem Obaideen. University Hospital in Sharjah diagnostic reference levels for multi-detector CT examinations. Submitted to IEEE Xplore. Advanced in Science and Engineering Technology Conference held in March 26 – 28, 2019 in Higher College of Technology Dubai, UAE. (Oral Presentation)

Dr. Wiam Elshami

Academic year 2018/2019

Publication:

1. Abuzaid, M. M., **Elshami, W.**, & Noorajan, Z. (2019). Radiation Dose Reduction and Cancer Risk Estimation Associated with Upper Limbs Radiographic Examination by using Optimal Projections: A Phantom Study. *Journal of Clinical & Diagnostic Research*, 13(1).
2. Abuzaid, M. M., **Elshami, W.**, & Hasan, H. (2019). Knowledge and Adherence to Radiation Protection among Healthcare Workers at Operation Theater. *Asian Journal of Scientific Research*, 12, 54-59.
3. **Elshami, W. E.**, Abuzaid, M. M., Guraya, S. S., & David, L. R. (2018). Acceptability and potential impacts of innovative E-Portfolios implemented in E-Learning systems for clinical training. *Journal of Taibah University Medical Sciences*.
4. Dalah, E. Z., Mahdi, O., **Elshami, W.**, Abuzaid, M. M., David, L. R., Mira, O. A., ... & Bradley, D. A. (2018). Occupational doses to cardiologists performing fluoroscopically-guided procedures. *Radiation Physics and Chemistry*, 153, 21-26.
5. Dimas, J., Ivor, N., **Elshami, W.**, & Dlama, J. (2018). Sonographic Assessment of the Fetal Thoracic Length (FTL) as a Predictor of Gestational Age (GA) in Nigerian Population. *Časopis za Journal of applied health science*, 4(2), 225-232.
6. **Elshami, W.**, & Abdalla, M. E. (2018). Peer assessment in health professions education. *Journal of Education Technology in Health Sciences*, 5(1), 8-14.

Conferences:

1. **W. Elshami**, O. Salem, N. Almajid, A. Alghareeb, O. Alnuwaiser, B. Alhomoud, (**May 2019**), A Snapshot of Occupational Radiation Dose in Veterinary Radiology, 3rd International Conference on Dosimetry and its Applications, ICDA-3, Portugal, Lisbon – Poster presentation
2. **W. Elshami**, M. Abuzaid, A. D. Piersson, O. Mira, M. AbdelHamid, X Zheng, A. Sulieman (**May 2019**), Occupational Radiation Dose and Adherence to Radiation Safety Practices in Two Hospitals of UAE: Retrospective Cross-sectional Cohort Study, , 3rd International Conference on Dosimetry and its Applications, ICDA-3, Portugal, Lisbon - Oral presentation
3. Abuzaid, M., **Elshami, W.**, Z. Noorjan (**March 2019**) [Brain CT with 64 and 16 slice CT scan comparison of image quality and radiation dose with standard protocols](#), ECR, 2019 - Oral presentation
4. J. Dlama, **W, Elshami**, J. Dimas, A. Moi, N. Flavious, U. Sani, O. Prince, C. Nzotta & S. Joeseeph (**September 2018**) [Results from Adult patients Dose Surveys For Radiography Examinations In Two Nigerian Hospitals](#), 5th African Regional Congress on International Radiation Protection Association, Tunisia
5. U. Sani, N. Flavious, A. Moi, C. Nzotta, J.Dlama, A. Yusuf, & **Elshami, W.** (**September 2018**) Pioneer Study on Acceptable Quality Dose(AQD) for mammography in a Nigeria Teaching Hospital, 5th African Regional Congress on International Radiation Protection Association, Tunisia