FACULTY FULL NAME: Amal Musfer Alqahtani

POSITION: Assistant Professor

Personal Data

Nationality | Saudi Department | Physics College | Medicine Official IAU Email | amalqahtani@iau.edu.sa Office Phone No. | 31144, Mob No. | 0505565558

Objective

I believe in hard work and excellence in my job. Every project, that brings new challenges and new things to learn as well as the opportunities of expanding the spectrum of skills, motivates me.

Language Proficiency

Language	Read	Write	Speak
Arabic	Native	Native	Native
English	Excellent	Excellent	Excellent

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Country
2020	PhD of Radiation and Medical Physics	University of Surrey	UK
2002	MSc. of Nuclear Physics	King Saud University	KSA- Riyadh
1999	BSc. of Physics	College of Science, King Faisal University	KSA- Dammam

PhD, Master Research Title:

PhD	Versatile Passive Dosimetry at Radiotherapy and Greater Levels using Borosilicate Glass
MSc	Precise Measurements of Gamma Background Radiation In The Girl's Branch Building of King Saud University At Malaz, Using Different Nuclear Techniques.

Professional Record: (Beginning with the most recent)

Job Rank	Place of work	Date
Assistant Professor	College of Medicine- Imam Abdulrahman Bin Faisal	2020
Lecturer	College of Medicine- Imam Abdulrahman Bin Faisal	2007
Demonstrator	College of Medicine- Imam Abdulrahman Bin Faisal	2001

Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Date
Vice dean Assistant of Deanship of Preparatory Year and Supporting	July 2020
Studies for Humanities and Scientific Tracks	
Vice dean Assistant of Deanship of Preparatory Year and Supporting	January 2020
Studies for Scientific Track	
Academic Supervisor for the Pre-Clinical Colleges of University of Dammam	2016

Scientific Achievements (Published Refereed Scientific Research):

#	Name of Investigator(s)	Title	Publisher and Date of Publication
1	Yeh Siang Lau, Ming Tsuey Chew, Amal Alqahtani, Bleddyn Jones, Mark A. Hill, Andrew Nisbet and David A. Bradley	Low Dose Ionising Radiation-Induced Hormesis: Therapeutic Implications to Human Health	Applied Sci.ences, 2021,11, 8909
2	Syed Taimoor Hussain Shah, Shahzad Ahmad Qureshi, Adil Aslam Mir, Amal Alqahtani, David A. Bradley, Mayeen Uddin Khandaker, Mohammad Rashed Iqbal Faruque and Muhammad Rafique	A Novel Hybrid Learning System Using Modified Breaking Ties Algorithm and Multinomial Logistic Regression for Classification and Segmentation of Hyperspectral Images	Applied Sciences. 2021, 11, 7614
3	H T Zubair, Amal Alqahtani, S F Abdul Sani, Hairul A Abdul- Rashid and D A Bradley	Chapter4: Development of borosilicate optical fibres for particle ionizing radiation dosimetry	In Book: Optical Fiber Technology and Applications Recent advances, Published August 2021 • Copyright © IOP Publishing Ltd 2021 Pages 4-1 to 4-28
4	S. F. Abdul Sani,M. H. U. Othman, Amal Alqahtani, K. S. Almugren, F. H. Alkallas, D. A. Bradley	Low-cost commercial borosilicate glass slides for passive radiation dosimetry	PLOS ONE, December 30, 2020

#	Name of Investigator(s)	Title	Publisher and Date of Publication
5	S.F. AbdulSanai, M.H.U. Othman, Amal Alqahtani, bA.A.Z. Ahmad Nazeri, K.S. Almugren, F.H .Alkallas and D.A. Bradley	Passive dosimetry of electron irradiated borosilicate glass slides	Radiation Physics and Chemistry, Volume 178, January 2021, 108903
6	Amal Alqahtani, S.F. Abdul Sani, Abdulaziz Alanazi, Z. Podolyak, A. Nisbet, D.A. Bradley	Microscope cover-slip glass for TLD applications	Applied Radiation and Isotopes, 160 (2020) 109132
7	Amal Alqahtani, D, A. Bradley, Abdulaziz Alanazi, Andrew Nisbet	Characterisation of borosilicate glass media as potential thermoluminescent dosimeters	Radiation Physics and Chemistry, 168 (2020) 108630
8	Amal Alqahtani	Versatile Passive Dosimetry at Radiotherapy and Greater Levels using Borosilicate Glass	University of Surrey, A Alqahtani-2020

Contribution in international scientific conferences

Name of Conference	Place and Date	Field of Contribution
XXI International	Mexico	Presentation: Development of
Symposium on Solid State	September 27 to	borosilicate optical fibres for particle
Dosimetry (ISSSD 2021) –	October 1, 2021	ionizing radiation dosimetry
(Virtual Event)		
The 3rd International	Lisbon, Portugal	Poster: Characterisation of
Conference on Dosimetry	27-31 May 2019	borosilicate glass media as potential
and its Applications- ICDA3		thermoluminescent dosimeters
The 2nd International	University of Surrey,	Poster: Estimation of Breast Dose
Conference on Dosimetry	Guildford, UK	and Cancer Risk in Chest and
and its Applications- ICDA2	3-8 July 2016	Abdomen CT Procedures
The 8 th International	Ras Al Khaimah, UAE	Poster: Optimization of Radiation
Workshop on Advanced	21-23 February 2016	Dose and Image Quality in CT
Materials (IWAM2016)		

Teaching Activities

Undergraduate:

Course Title	Code
Physics for Medical students	141
Electronics 1-Electronics2 for Computer Science Students	

Postgraduate:

Course Title	Code
Teaching Course of Diagnostic Radiology Physics for Radiology	850
Fellowship Programme at King Fahad University Hospital since 2020	

Professional Membership

The Saudi Medical Physics Society, 2019

Professional Skills

Certified in Quality and Assessments of Medical Education, 2015 Knowledge of Research Methodologies Expert and qualified in different technique (RISO TL/OSL Reader), X Ray Diffraction (XRD), Scanning Electron Microscope(SEM), Photoluminescence(PL) and Raman Spectroscopy. Familiar with Microsoft Office (word, excel & power point). Certified Professional Trainer of Saudi National Dialogue in 2016

Awards

Saudi Cultural Bureau Excellence Award, 2018 Saudi Cultural Bureau Excellence Award, March 2019

Updated October 2021