

DR. DJOUIDER, Fathi

Associate Professor, Nuclear Engineering Dept., King Abdulaziz University

Education

<i>Degree</i>	<i>Field</i>	<i>Institution</i>	<i>Year</i>
PhD	Radiation Physics and Chemistry	Leeds (UK)	1995
MS	Radiation Physics	Rome (Italy)	1987
BS	Solid State Physics	Algiers (Algeria)	1981

Academic Experience

<i>From</i>	<i>To</i>	<i>Institution</i>	<i>Rank</i>	<i>Title (Chair, Coordinator, etc.)</i>	<i>Full or Part Time</i>
1987	1991	Nuclear Research Center Algiers	Assis. Prof		FT
1996	2005	College of Tech. Dammam	Ass. Prof		FT
2005	2006	College of Tech. Exmouth UK	Lecturer		FT
2006	2016	King Abdulaziz University	Assis Prof		FT
2016	Present	King Abdulaziz University	Assoc. Prof		FT

Certifications and Professional Registrations

National Committee for Radiation Protection and Safety in Uranium Mines (Algeria)

Current Membership in Professional Societies and Organizations

	<i>Society/organization</i>	<i>Rank</i>	<i>Member Since</i>
1.	National Committee for Radiation Protection and Safety in Uranium Mines (Algeria)	Member	1990
2.	Health Physics Society	Member	2010

Honors and Awards

1. US Patent Office: patent No 7,750,317: Ionizing radiations.
2. European Patent Office No 1 958 665: Anthropometric Phantom.
3. European Union awards: 1985: for a Master Degree at the University of Rome (Italy)
4. British Council awards: 1991: for a PhD Degree at the University of Leeds (UK):

Services Activities (*within and outside the institution*)

1. ABET Nuclear Dept. Champion
2. Chairman of the radiation protection department committee
3. Member of several department committees
4. Member of the Editorial Board of the Journal of Engineering Science, King Abdulaziz University

Principal Publications/Presentations from the Past Five Years

1. Djouider, F. Performance testing of locally manufactured commercial soda–lime–silicate glass in Saudi Arabia for low-dose radiation in γ -ray field. *SN Appl. Sci.* **2**, 1079 (2020).
2. F. Djouider. 2020. Kinetics and mechanism of the advanced oxidation process of Cr(III) to Cr(VI) by SO_4^- free radicals in slightly acidic simulated atmospheric water. *Radiochimica Acta*, 108 (2),127-135
3. T. Eslam, F. Djouider, E. Banoqitah. (2019). Monte Carlo simulation of dose enhancement due to silver nanoparticles implantation in brain tumor brachytherapy using a digital phantom. *Radiation Physics and Chemistry.* 156, 15-21
4. T. Eslam, F. Djouider, E. Banoqitah (2017). Monte Carlo simulations for dose enhancement in cancer treatment using bismuth oxide nanoparticles implanted in brain soft tissue. *Australasian Physical & Engineering Sciences in Medicine*, 41 (2),363-370
5. F. Djouider, M. Aljohani. Simulated Industrial Wastewater Treatment Using Continuous High-Energy Electron Beam Irradiation: Removal of Chromium (VI) Toxic Metal Conference: 1st International Conference on Radiations and Applications (ICRA) Location: Algiers, ALGERIA Date: NOV 20-23, 2017
6. F. Djouider, M. Aljohani. 2017. Radiation induced environmental remediation of Cr(VI) heavy metal in aerated neutral solution under simulated industrial effluent *Radiochimica Acta.*105 (6), 493-504.
7. F. Djouider, M. Aljohani (2017). Laboratory-scale study of the advanced Fenton process for silica removal from brackish underground water in arid areas in Saudi Arabia *Desalination and Water Treatment*, 60-65
8. E. Banoqitah, F. Djouider. Dose Distribution and Dose Enhancement by Using Gadolinium Nanoparticles Implant in Brain Tumor in Stereotactic Brachytherapy *Radiation Physics and Chemistry* (2016). 127, 68-72.

Recent Professional Development Activities (*Workshops, training, etc.*)

1. Workshop in Algiers, Algeria, “Organization of Radiation Protection in Uranium Mines-optimization of radiation Protection”. Nov 2019
2. ***Extracurricular Activities Workshop in Medium schools in UK, July 2019, Exmouth College, Devon, UK***
3. Blackboard Webinar, on “Delivering Virtual Classes”, with the collaboration of KAU Deanship of e-Learning and Distance Education, March 2020.