

# Reza Taleei

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

680  
citations

686830

13  
h-index

752256

20  
g-index

21  
all docs

21  
docs citations

21  
times ranked

795  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial mapping of the biologic effectiveness of scanned particle beams: towards biologically optimized particle therapy. <i>Scientific Reports</i> , 2015, 5, 9850.	1.6	117
2	Analysis of the track- and dose-averaged LET and LET spectra in proton therapy using the Geant4 Monte Carlo code. <i>Medical Physics</i> , 2015, 42, 6234-6247.	1.6	103
3	Biochemical DSB-repair model for mammalian cells in G1 and early S phases of the cell cycle. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2013, 756, 206-212.	0.9	79
4	The Non-homologous End-Joining (NHEJ) Pathway for the Repair of DNA Double-Strand Breaks: I. A Mathematical Model. <i>Radiation Research</i> , 2013, 179, 530-539.	0.7	61
5	The Non-homologous End-Joining (NHEJ) Mathematical Model for the Repair of Double-Strand Breaks: II. Application to Damage Induced by Ultrasoft X Rays and Low-Energy Electrons. <i>Radiation Research</i> , 2013, 179, 540-548.	0.7	46
6	The visible signal responsible for proton therapy dosimetry using bare optical fibers is not Čerenkov radiation. <i>Medical Physics</i> , 2016, 43, 5973-5980.	1.6	46
7	Proton therapy dosimetry using the scintillation of the silica fibers. <i>Optics Letters</i> , 2017, 42, 847.	1.7	40
8	Repair of the double-strand breaks induced by low energy electrons: A modelling approach. <i>International Journal of Radiation Biology</i> , 2012, 88, 948-953.	1.0	26
9	DSB repair model for mammalian cells in early S and G1 phases of the cell cycle: Application to damage induced by ionizing radiation of different quality. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2015, 779, 5-14.	0.9	26
10	Radiation induced base excision repair (BER): A mechanistic mathematical approach. <i>DNA Repair</i> , 2014, 22, 89-103.	1.3	22
11	A kinetic model of single-strand annealing for the repair of DNA double-strand breaks. <i>Radiation Protection Dosimetry</i> , 2011, 143, 191-195.	0.4	20
12	Ionizing radiation and genetic risks. XVII. Formation mechanisms underlying naturally occurring DNA deletions in the human genome and their potential relevance for bridging the gap between induced DNA double-strand breaks and deletions in irradiated germ cells. <i>Mutation Research - Reviews in Mutation Research</i> , 2013, 753, 114-130.	2.4	18
13	A simulation approach for determining the spectrum of DNA damage induced by protons. <i>Physics in Medicine and Biology</i> , 2018, 63, 175003.	1.6	17
14	Monte Carlo simulations of $^3\text{He}$ ion physical characteristics in a water phantom and evaluation of radiobiological effectiveness. <i>Medical Physics</i> , 2016, 43, 761-776.	1.6	13
15	Calculation of the initial DNA damage induced by alpha particles in comparison with protons and electrons using Geant4-DNA. <i>International Journal of Radiation Biology</i> , 2020, 96, 767-778.	1.0	11
16	A Monte Carlo evaluation of carbon and lithium ions dose distributions in water. <i>International Journal of Radiation Biology</i> , 2012, 88, 189-194.	1.0	10
17	Response to the Letter of Bodgi and Foray: On the coherence between mathematical models of DSB repair and physiological reality. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2014, 761, 50-52.	0.9	9
18	Track structure simulation of low energy electron damage to DNA using Geant4-DNA. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 065009.	0.6	9

#	ARTICLE	IF	CITATIONS
19	MODELLING DSB REPAIR KINETICS FOR DNA DAMAGE INDUCED BY PROTON AND CARBON IONS. Radiation Protection Dosimetry, 2019, 183, 75-78.	0.4	6