

Hooshang Nikjoo

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39
papers

1,680
citations

23
h-index

40
g-index

40
ext. papers

1,859
ext. citations

2.9
avg, IF

4.93
L-index

#	Paper	IF	Citations
39	Track structure analysis of ultrasoft X-rays compared to high- and low-LET radiations. <i>International Journal of Radiation Biology</i> , 1989 , 55, 513-29	2.9	172
38	RBE of low energy electrons and photons. <i>Physics in Medicine and Biology</i> , 2010 , 55, R65-109	3.8	135
37	A complete dielectric response model for liquid water: a solution of the Bethe ridge problem. <i>Radiation Research</i> , 2005 , 164, 202-11	3.1	131
36	The effect of model approximations on single-collision distributions of low-energy electrons in liquid water. <i>Radiation Research</i> , 2005 , 163, 98-111	3.1	119
35	Comparison and Assessment of Electron Cross Sections for Monte Carlo Track Structure Codes. <i>Radiation Research</i> , 1999 , 152, 202	3.1	86
34	Monte Carlo simulation of water radiolysis for low-energy charged particles. <i>Journal of Radiation Research</i> , 2006 , 47, 69-81	2.4	72
33	Applications of amorphous track models in radiation biology. <i>Radiation and Environmental Biophysics</i> , 1999 , 38, 81-92	2	68
32	Biophysical model of the radiation-induced bystander effect. <i>International Journal of Radiation Biology</i> , 2003 , 79, 43-52	2.9	62
31	Spectrum of Radiation-Induced Clustered Non-DSB Damage - A Monte Carlo Track Structure Modeling and Calculations. <i>Radiation Research</i> , 2015 , 183, 525-40	3.1	60
30	Monte Carlo Track Structure Code for Low-Energy Alpha-Particles in Water. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 11051-11063	3.4	59
29	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, 206-12	3	58
28	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, 530-9	3.1	56
27	Can Monte Carlo track structure codes reveal reaction mechanism in DNA damage and improve radiation therapy?. <i>Radiation Physics and Chemistry</i> , 2008 , 77, 1270-1279	2.5	54
26	Modelling of Auger-induced DNA damage by incorporated 125I. <i>Acta Oncologica</i> , 1996 , 35, 849-56	3.2	52
25	A model of the cell nucleus for DNA damage calculations. <i>International Journal of Radiation Biology</i> , 2012 , 88, 87-97	2.9	50
24	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, 540-8	3.1	41
23	Inelastic cross sections for low-energy electrons in liquid water: exchange and correlation effects. <i>Radiation Research</i> , 2013 , 180, 499-513	3.1	40

22	Monte Carlo Electron Track Structure Calculations in Liquid Water Using a New Model Dielectric Response Function. <i>Radiation Research</i> , 2017 , 188, 355-368	3.1	38
21	Microdosimetry of low-energy electrons. <i>International Journal of Radiation Biology</i> , 2012 , 88, 899-907	2.9	37
20	Cross sections for bare and dressed carbon ions in water and neon. <i>Physics in Medicine and Biology</i> , 2013 , 58, 641-72	3.8	31
19	Physical and biophysical properties of proton tracks of energies 1 keV to 300 MeV in water. <i>International Journal of Radiation Biology</i> , 2011 , 87, 141-60	2.9	30
18	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	3	24
17	Repair of the double-strand breaks induced by low energy electrons: a modelling approach. <i>International Journal of Radiation Biology</i> , 2012 , 88, 948-53	2.9	24
16	RBE-LET relationships in mutagenesis by ionizing radiation. <i>Journal of Radiation Research</i> , 1999 , 40 Suppl, 85-105	2.4	21
15	Radiation induced base excision repair (BER): a mechanistic mathematical approach. <i>DNA Repair</i> , 2014 , 22, 89-103	4.3	20
14	A kinetic model of single-strand annealing for the repair of DNA double-strand breaks. <i>Radiation Protection Dosimetry</i> , 2011 , 143, 191-5	0.9	18
13	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	7	16
12	Monte Carlo single-cell dosimetry of I-131, I-125 and I-123 for targeted radioimmunotherapy of B-cell lymphoma. <i>International Journal of Radiation Biology</i> , 2012 , 88, 908-15	2.9	16
11	A stochastic cascade model for Auger-electron emitting radionuclides. <i>International Journal of Radiation Biology</i> , 2016 , 92, 641-653	2.9	16
10	Ionising radiation and genetic risks. XVI. A genome-based framework for risk estimation in the light of recent advances in genome research. <i>International Journal of Radiation Biology</i> , 2011 , 87, 161-78	2.9	13
9	Microdosimetry of proton and carbon ions. <i>Medical Physics</i> , 2014 , 41, 081721	4.4	12
8	A Monte Carlo evaluation of carbon and lithium ions dose distributions in water. <i>International Journal of Radiation Biology</i> , 2012 , 88, 189-94	2.9	9
7	Nanodosimetry and RBE values in radiotherapy. <i>Radiation Protection Dosimetry</i> , 2015 , 166, 339-42	0.9	8
6	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, 50-2	3	8
5	Modelling of radiation-induced bystander effect at low dose and low LET. <i>International Journal of Low Radiation</i> , 2006 , 3, 143	1	7

4	Calculated strand breaks from (125)I in coiled DNA. <i>International Journal of Radiation Biology</i> , 2008 , 84, 1050-6	2.9	6
3	Verification of KURBUC-based ion track structure mode for proton and carbon ions in the PHITS code. <i>Physics in Medicine and Biology</i> , 2021 , 66, 06NT02	3.8	5
2	Calculations of absorbed fractions in small water spheres for low-energy monoenergetic electrons and the Auger-emitting radionuclides (123)I and (125)I. <i>International Journal of Radiation Biology</i> , 2012 , 88, 916-21	2.9	4
1	Determination of DNA structural detail using radioprobng. <i>International Journal of Radiation Biology</i> , 2012 , 88, 123-8	2.9	2