Rui Qiu

List of Publications by Year
in descending order

39 papers	363 citations	840776 11 h-index	888059 17 g-index
39 all docs	39 docs citations	39 times ranked	369 citing authors

#	Article	IF	Citations
1	New mesh-type phantoms and their dosimetric applications, including emergencies. Annals of the ICRP, 2018, 47, 45-62.	3.8	45
2	Intercomparison of dose enhancement ratio and secondary electron spectra for gold nanoparticles irradiated by X-rays calculated using multiple Monte Carlo simulation codes. Physica Medica, 2020, 69, 147-163.	0.7	42
3	DNA strand breaks induced by electrons simulated with Nanodosimetry Monte Carlo Simulation Code: NASIC. Radiation Protection Dosimetry, 2015, 166, 38-43.	0.8	24
4	Modelling of Cellular Survival Following Radiation-Induced DNA Double-Strand Breaks. Scientific Reports, 2018, 8, 16202.	3.3	21
5	PHOTON SAF CALCULATION BASED ON THE CHINESE MATHEMATICAL PHANTOM AND COMPARISON WITH THE ORNL PHANTOMS. Health Physics, 2008, 95, 716-724.	0.5	18
6	Monte Carlo calculation of conversion coefficients for dose estimation in mammography based on a 3D detailed breast model. Medical Physics, 2017, 44, 2503-2514.	3.0	16
7	Physical Dosimetric Reconstruction of a Radiological Accident at Nanjing (China) for Clinical Treatment Using Thudose. Health Physics, 2017, 113, 327-334.	0.5	15
8	An ICRP-based Chinese adult male voxel model and its absorbed dose for idealized photon exposuresâ€"the skeleton. Physics in Medicine and Biology, 2009, 54, 6675-6690.	3.0	13
9	Comparison of direct DNA strand breaks induced by low energy electrons with different inelastic cross sections. Nuclear Instruments & Methods in Physics Research B, 2013, 311, 27-36.	1.4	13
10	Modeling of cellular response after FLASH irradiation: a quantitative analysis based on the radiolytic oxygen depletion hypothesis. Physics in Medicine and Biology, 2021, 66, 185009.	3.0	13
11	Characterization of a broad-energy germanium detector for its use in CJPL. Nuclear Science and Techniques/Hewuli, 2017, 28, 1.	3.4	12
12	Comparison of direct DNA strand break simulated with different DNA models. Radiation Protection Dosimetry, 2013, 156, 283-288.	0.8	11
13	An encoder-decoder network for direct image reconstruction on sinograms of a long axial field of view PET. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 4464-4477.	6.4	11
14	Analysis of Chloroplast Genomes Provides Insights Into the Evolution of Agropyron. Frontiers in Genetics, 2022, 13, 832809.	2.3	10
15	CMGC: a CAD to Monte Carlo geometry conversion code. Nuclear Science and Techniques/Hewuli, 2020, 31, 1.	3.4	9
16	Application of High-Z Gold Nanoparticles in Targeted Cancer Radiotherapyâ€"Pharmacokinetic Modeling, Monte Carlo Simulation and Radiobiological Effect Modeling. Cancers, 2021, 13, 5370.	3.7	9
17	Measurements of X-ray doses and spectra produced by picosecond laser-irradiated solid targets. Applied Radiation and Isotopes, 2017, 123, 41-48.	1.5	8
18	Dose conversion coefficients based on the Chinese mathematical phantom and MCNP code for external photon irradiation. Radiation Protection Dosimetry, 2009, 134, 3-12.	0.8	7

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19	Consistency checks of results from a Monte Carlo code intercomparison for emitted electron spectra and energy deposition around a single gold nanoparticle irradiated by X-rays. Radiation Measurements, 2021, 147, 106637.	1.4	7
20	ESTABLISHMENT OF DETAILED EYE MODEL OF ADULT CHINESE MALE AND DOSE CONVERSION COEFFICIENTS CALCULATION UNDER NEUTRON EXPOSURE. Radiation Protection Dosimetry, 2017, 177, 295-301.	0.8	6
21	Establishment of the Detailed Breast Model of Chinese Adult Female and Application in External Radiation Protection. Radiation Protection Dosimetry, 2017, 174, 113-120.	0.8	5
22	Development of a DNA damage model that accommodates different cellular oxygen concentrations and radiation qualities. Medical Physics, 2021, 48, 5511-5521.	3.0	5
23	Development of 1-year-old computational phantom and calculation of organ doses during CT scans using Monte Carlo simulation. Physics in Medicine and Biology, 2014, 59, 5243-5260.	3.0	5
24	Intercomparison of micro- and nanodosimetry Monte Carlo simulations: An approach to assess the influence of different cross-sections for low-energy electrons on the dispersion of results. Radiation Measurements, 2022, 150, 106675.	1.4	5
25	Demagnetization of Nd-Fe-B Permanent Magnet at 2.5 GeV Electron Accelerator. Journal of Nuclear Science and Technology, 2008, 45, 46-49.	1.3	4
26	ELECTRON ABSORBED FRACTIONS IN AN IMAGE-BASED MICROSCOPIC SKELETAL DOSIMETRY MODEL OF CHINESE ADULT MALE. Radiation Protection Dosimetry, 2017, 175, 450-459.	0.8	4
27	THUBrachy: fast Monte Carlo dose calculation tool accelerated by heterogeneous hardware for high-dose-rate brachytherapy. Nuclear Science and Techniques/Hewuli, 2021, 32, 1.	3.4	4
28	Development of Chinese mesh-type pediatric reference phantom series and application in dose assessment of Chinese undergoing computed tomography scanning. Physics in Medicine and Biology, 2021, 66, 195002.	3.0	4
29	Organ dose conversion coefficients for external neutron irradiation based on the Chinese mathematical phantom (CMP). Journal of Nuclear Science and Technology, 2012, 49, 263-271.	1.3	3
30	DOSIMETRIC EVALUATION OF LASER-DRIVEN X-RAY AND NEUTRON SOURCES UTILIZING XG-III PS LASER WITH PEAK POWER OF 300 TERAWATT. Radiation Protection Dosimetry, 2017, 177, 302-309.	0.8	3
31	DOSE DISTRIBUTION IN A BREAST UNDERGOING MAMMOGRAPHY BASED ON A 3D DETAILED BREAST MODEL FOR CHINESE WOMEN. Radiation Protection Dosimetry, 2018, 181, 221-228.	0.8	3
32	Research on X-ray Fluorescence Enhanced Fluoroscopy Imaging Technology. Photonics, 2021, 8, 441.	2.0	3
33	CPU-GPU coupling independent reaction times method in NASIC and application in water radiolysis by FLASH irradiation. Biomedical Physics and Engineering Express, 2022, 8, 025015.	1.2	3
34	A Computational Model for Oxygen Depletion Hypothesis in FLASH Effect. Radiation Research, 2021, 197, .	1.5	2
35	Dose conversion coefficients for Chinese reference adult male and female voxel phantoms from idealized neutron exposures. Journal of Nuclear Science and Technology, 2017, 54, 921-932.	1.3	0
36	Multi-scale Dosimetry with Multi-scale Chinese Reference Phantoms. , 2018, , .		0

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37	Total-Body PET Images Reconstruction Optimization Using Deep Learning. Nuklearmedizin - NuclearMedicine, 2021, 60, .	0.7	0
38	A Newly Designed Seed-Loading Device for Verifying the Safety of 125I Implants to the Canine Carotid Artery. Radiation Research, 2021, 196, 175-182.	1.5	0
39	Women in radiation (WiR)â€”a perspective for the strengthening of radiation protection. Journal of Radiological Protection, 2022, 42, 010502.	1.1	0