

Weihai Zhuo

List of Publications by Year in descending order

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62
papers

1,056
citations

623188

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h-index

433756

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63
all docs

63
docs citations

63
times ranked

662
citing authors

#	ARTICLE	IF	CITATIONS
1	Up-to-date radon-thoron discriminative detector for a large scale survey. Review of Scientific Instruments, 2005, 76, 113505.	0.6	156
2	Occurrence of ^{222}Rn , ^{220}Rn , and U in groundwater in Fujian Province, China. Journal of Environmental Radioactivity, 2001, 53, 111-120.	0.9	110
3	Radon and Thoron Exposures for Cave Residents in Shanxi and Shaanxi Provinces. Radiation Research, 2004, 162, 390-396.	0.7	90
4	A simple passive monitor for integrating measurements of indoor thoron concentrations. Review of Scientific Instruments, 2002, 73, 2877-2881.	0.6	81
5	Estimation of Thoron Progeny Concentrations in Dwellings with Their Deposition Rate Measurements.. Japanese Journal of Health Physics, 2000, 35, 365-370.	0.1	63
6	Estimating the amount and distribution of radon flux density from the soil surface in China. Journal of Environmental Radioactivity, 2008, 99, 1143-1148.	0.9	58
7	Radon-Thoron Discriminative Measurements in Gansu Province, China, and Their Implication for Dose Estimates. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2006, 69, 723-734.	1.1	55
8	Modeling Radon Flux Density from the Earth's Surface. Journal of Nuclear Science and Technology, 2006, 43, 479-482.	0.7	51
9	Feasibility for Mapping Radon Exhalation Rate from Soil in China. Journal of Nuclear Science and Technology, 2004, 41, 86-90.	0.7	49
10	Estimation of global radon exhalation rate distribution. AIP Conference Proceedings, 2008, , .	0.3	21
11	Soil radon flux and outdoor radon concentrations in East Asia. International Congress Series, 2005, 1276, 285-286.	0.2	17
12	Shielding Effect of Lead Glasses on Radiologists's Eye Lens Exposure in Interventional Procedures. Radiation Protection Dosimetry, 2016, 174, 136-140.	0.4	16
13	An Instrument For Measuring Equilibrium-Equivalent ^{222}Rn And ^{220}Rn Concentrations With Etched Track Detectors. Health Physics, 1999, 77, 584-587.	0.3	14
14	Potential of High Thoron Exposure in China. Journal of Nuclear Science and Technology, 2000, 37, 716-719.	0.7	14
15	Measurement of thoron gas in the environment using a Lucas scintillation cell. Journal of Radiological Protection, 2010, 30, 597-605.	0.6	14
16	Identification and counting of alpha tracks by using an imaging plate. Radiation Measurements, 2011, 46, 371-374.	0.7	14
17	Seasonal and Spatial Distribution of Atmospheric Tritiated Water Vapor in Mainland China. Environmental Science & Technology, 2019, 53, 14175-14185.	4.6	13
18	A new passive sampler for collecting atmospheric tritiated water vapor. Atmospheric Environment, 2017, 154, 308-317.	1.9	12

#	ARTICLE	IF	CITATIONS
19	Feasibility for Mapping Radon Exhalation Rate from Soil in China. , 0, .		12
20	¹⁸ F-fluoromisonidazole positron emission tomography/CT-guided volumetric modulated arc therapy-based dose escalation for hypoxic subvolume in nasopharyngeal carcinomas: A feasibility study. Head and Neck, 2017, 39, 2519-2527.	0.9	11
21	Monte Carlo simulation of eye lens dose reduction from CT scan using organ based tube current modulation. Physica Medica, 2018, 48, 72-75.	0.4	11
22	Application of a liquid scintillation system with 100-ml counting vials for environmental tritium determination: Procedure optimization, performance test, and uncertainty analysis. Journal of Environmental Radioactivity, 2020, 225, 106427.	0.9	11
23	Reanalysis of residential radon surveys in China from 1980 to 2019. Science of the Total Environment, 2021, 757, 143767.	3.9	10
24	Long-Term Measurements of Radon and Thoron Exhalation Rates from the Ground Using the Vertical Distributions of Their Activity Concentrations. International Journal of Environmental Research and Public Health, 2021, 18, 1489.	1.2	10
25	Internal dosimetry in F-18 FDG PET examinations based on long-time-measured organ activities using total-body PET/CT: does it make any difference from a short-time measurement?. EJNMMI Physics, 2021, 8, 51.	1.3	10
26	Virtual Patient-Specific Quality Assurance of IMRT Using UNet++: Classification, Gamma Passing Rates Prediction, and Dose Difference Prediction. Frontiers in Oncology, 2021, 11, 700343.	1.3	10
27	Trends in radiation exposure from clinical nuclear medicine procedures in Shanghai, China. Nuclear Medicine Communications, 2012, 33, 331-336.	0.5	9
28	Reconstruction of Database on Natural Radionuclide Contents in Soil in China. Journal of Nuclear Science and Technology, 2008, 45, 180-184.	0.7	8
29	Patient doses in different projections of conventional diagnostic X-ray examinations. Radiation Protection Dosimetry, 2008, 132, 334-338.	0.4	8
30	Modeling Radon Flux Density from the Earth's Surface. , 0, .		8
31	Convenient methods for evaluation of indoor thoron progeny concentrations. International Congress Series, 2005, 1276, 219-220.	0.2	7
32	Measurement of therapeutic ¹² C beam in a water phantom using CR-39. Journal of Radiological Protection, 2021, 41, 279-290.	0.6	7
33	A survey on radiation exposure of primary operators from interventional X-ray procedures. Radiation Measurements, 2013, 55, 43-45.	0.7	6
34	Development of a nonhuman primate computational phantom for radiation dosimetry. Medical Physics, 2020, 47, 736-744.	1.6	6
35	An instrument for measuring the unattached fraction of radon progeny with etched track detectors. Journal of Radiological Protection, 2010, 30, 607-612.	0.6	5
36	Measurements of the size distribution of unattached radon progeny by using the imaging plate. Radiation Measurements, 2014, 62, 41-44.	0.7	5

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37	Comparison of Radon and Thoron Concentration Measuring Systems Among Asian Countries. International Journal of Environmental Research and Public Health, 2019, 16, 5019.	1.2	5
38	Estimating Specific Patient Organ Dose for Chest CT Examinations with Monte Carlo Method. Applied Sciences (Switzerland), 2021, 11, 8961.	1.3	5
39	Deep Learning for Patient-Specific Quality Assurance: Predicting Gamma Passing Rates for IMRT Based on Delivery Fluence Informed by log Files. Technology in Cancer Research and Treatment, 2022, 21, 153303382211048.	0.8	5
40	Fading Characteristics of Alpha Radiation Signals Stored in an Imaging Plate. Journal of Nuclear Science and Technology, 2011, 48, 1158-1162.	0.7	4
41	MEASUREMENT OF AMBIENT CARBON-14 BY USING THE GEL SUSPENSION COUNTING METHOD. Radiation Protection Dosimetry, 2019, 184, 405-408.	0.4	4
42	Application of synthetic benzoic acid technology in environmental radiocarbon monitoring. Journal of Environmental Radioactivity, 2020, 216, 106188.	0.9	4
43	Potential of High Thoron Exposure in China.. Journal of Nuclear Science and Technology, 2000, 37, 716-719.	0.7	4
44	An Outline Survey of Indoor and Outdoor ²²² Rn Concentrations in South Korea.. Japanese Journal of Health Physics, 1998, 33, 401-406.	0.1	3
45	Concentrations and deposition rates of ²²⁰ Rn progeny in houses. Science of the Total Environment, 2001, 272, 139-140.	3.9	2
46	A Naturally Ventilated Accumulator for Integrating Measurements of Radon Flux from Soil. Journal of Nuclear Science and Technology, 2007, 44, 1100-1105.	0.7	2
47	Organ and effective dose evaluation in coronary angiography by using a ³²⁰ MDCT based on in-phantom dose measurements with TLDs. Journal of Radiological Protection, 2015, 35, 597-609.	0.6	2
48	Paediatric organ doses from CT-simulation in brain tumour GK radiosurgery treatment – Phantom study. Radiation Measurements, 2017, 106, 361-364.	0.7	2
49	A new apparatus for on-site calibration of gamma dose rate monitors. Review of Scientific Instruments, 2018, 89, 013507.	0.6	2
50	MEASUREMENT OF THE POTENTIAL ALPHA ENERGY CONCENTRATION OF RADON PROGENY BY USING LIQUID SCINTILLATION COUNTING METHOD. Radiation Protection Dosimetry, 2019, 184, 440-443.	0.4	2
51	Changes of the linear energy transfer (LET) and beam width of therapeutic carbon ion beam in density heterogeneous phantoms. Journal of Radiological Protection, 2022, 42, 021518.	0.6	2
52	The responses of three kinds of passive dosimeters to secondary cosmic rays in the lower atmosphere. Review of Scientific Instruments, 2015, 86, 123304.	0.6	1
53	A new approach for discriminative measurements of different components of external ionizing radiation. Journal of Environmental Radioactivity, 2017, 173, 2-5.	0.9	1
54	Charged particle radiobiology beamline using tandem accelerator-based MeV protons and carbon ions: a pilot study on the track-end radiation quality, variable biological effectiveness and Bayesian beam dosimetry. Physics in Medicine and Biology, 2019, 64, 165004.	1.6	1

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55	A new phantom developed to test the ATCM performance of chest CT scanners. Journal of Radiological Protection, 2021, 41, 349-359.	0.6	1
56	A Naturally Ventilated Accumulator for Integrating Measurements of Radon Flux from Soil. Journal of Nuclear Science and Technology, 2007, 44, 1100-1105.	0.7	1
57	Measurements of linear energy transfer (LET) distributions by CR-39 for a therapeutic carbon ion beam with a new 2D ripple filter. Radiation Physics and Chemistry, 2022, 197, 110193.	1.4	1
58	A new sampler for simulating aerosol deposition in the respiratory tract. Nuclear Science and Techniques/Hewuli, 2008, 19, 169-173.	1.3	0
59	A Combination of Wire Screens for Simulating Aerosol Deposition in Human Tracheobronchial Regions. , 2008, , .		0
60	Estimation of Effective Doses in Head CT Based on RPLGD In-Phantom Measurements. , 2008, , .		0
61	Aerosol Size Distribution and Its Implication for Radiation Dose Estimation in a Copper Mine. , 2009, , .		0
62	Measurement of three-dimensional track profiles on CR-39s based on the photometric stereo method. Review of Scientific Instruments, 2022, 93, 033303.	0.6	0