

Weihai Zhuo

List of Publications by Year in descending order

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papers

1,056
citations

623188

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433756

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all docs

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docs citations

63
times ranked

662
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | Reanalysis of residential radon surveys in China from 1980 to 2019. Science of the Total Environment, 2021, 757, 143767. | 3.9 | 10 |
| 6 | 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 |
| 7 | A new phantom developed to test the ATCM performance of chest CT scanners. Journal of Radiological Protection, 2021, 41, 349-359. | 0.6 | 1 |
| 8 | Measurement of therapeutic ^{12}C beam in a water phantom using CR-39. Journal of Radiological Protection, 2021, 41, 279-290. | 0.6 | 7 |
| 9 | 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 |
| 10 | 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 |
| 11 | Estimating Specific Patient Organ Dose for Chest CT Examinations with Monte Carlo Method. Applied Sciences (Switzerland), 2021, 11, 8961. | 1.3 | 5 |
| 12 | Development of a nonhuman primate computational phantom for radiation dosimetry. Medical Physics, 2020, 47, 736-744. | 1.6 | 6 |
| 13 | 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 |
| 14 | Application of synthetic benzoic acid technology in environmental radiocarbon monitoring. Journal of Environmental Radioactivity, 2020, 216, 106188. | 0.9 | 4 |
| 15 | MEASUREMENT OF AMBIENT CARBON-14 BY USING THE GEL SUSPENSION COUNTING METHOD. Radiation Protection Dosimetry, 2019, 184, 405-408. | 0.4 | 4 |
| 16 | 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 |
| 17 | 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 |
| 18 | Seasonal and Spatial Distribution of Atmospheric Tritiated Water Vapor in Mainland China. Environmental Science & Technology, 2019, 53, 14175-14185. | 4.6 | 13 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | A new apparatus for on-site calibration of gamma dose rate monitors. Review of Scientific Instruments, 2018, 89, 013507. | 0.6 | 2 |
| 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 | A new passive sampler for collecting atmospheric tritiated water vapor. Atmospheric Environment, 2017, 154, 308-317. | 1.9 | 12 |
| 23 | Paediatric organ doses from CT-simulation in brain tumour GK radiosurgery treatment " Phantom study. Radiation Measurements, 2017, 106, 361-364. | 0.7 | 2 |
| 24 | 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 |
| 25 | A new approach for discriminative measurements of different components of external ionizing radiation. Journal of Environmental Radioactivity, 2017, 173, 2-5. | 0.9 | 1 |
| 26 | Shielding Effect of Lead Glasses on Radiologists' Eye Lens Exposure in Interventional Procedures. Radiation Protection Dosimetry, 2016, 174, 136-140. | 0.4 | 16 |
| 27 | 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 |
| 28 | 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 |
| 29 | Measurements of the size distribution of unattached radon progeny by using the imaging plate. Radiation Measurements, 2014, 62, 41-44. | 0.7 | 5 |
| 30 | A survey on radiation exposure of primary operators from interventional X-ray procedures. Radiation Measurements, 2013, 55, 43-45. | 0.7 | 6 |
| 31 | Trends in radiation exposure from clinical nuclear medicine procedures in Shanghai, China. Nuclear Medicine Communications, 2012, 33, 331-336. | 0.5 | 9 |
| 32 | Identification and counting of alpha tracks by using an imaging plate. Radiation Measurements, 2011, 46, 371-374. | 0.7 | 14 |
| 33 | Fading Characteristics of Alpha Radiation Signals Stored in an Imaging Plate. Journal of Nuclear Science and Technology, 2011, 48, 1158-1162. | 0.7 | 4 |
| 34 | Measurement of thoron gas in the environment using a Lucas scintillation cell. Journal of Radiological Protection, 2010, 30, 597-605. | 0.6 | 14 |
| 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 | Aerosol Size Distribution and Its Implication for Radiation Dose Estimation in a Copper Mine. , 2009, , . | | 0 |

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|----|--|-----|-----------|
| 37 | 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 |
| 38 | A new sampler for simulating aerosol deposition in the respiratory tract. Nuclear Science and Techniques/Hewuli, 2008, 19, 169-173. | 1.3 | 0 |
| 39 | Reconstruction of Database on Natural Radionuclide Contents in Soil in China. Journal of Nuclear Science and Technology, 2008, 45, 180-184. | 0.7 | 8 |
| 40 | A Combination of Wire Screens for Simulating Aerosol Deposition in Human Tracheobronchial Regions. , 2008, , . | | 0 |
| 41 | Estimation of Effective Doses in Head CT Based on RPLGD In-Phantom Measurements. , 2008, , . | | 0 |
| 42 | Estimation of global radon exhalation rate distribution. AIP Conference Proceedings, 2008, , . | 0.3 | 21 |
| 43 | Patient doses in different projections of conventional diagnostic X-ray examinations. Radiation Protection Dosimetry, 2008, 132, 334-338. | 0.4 | 8 |
| 44 | 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 |
| 45 | 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 |
| 46 | Modeling Radon Flux Density from the Earth's Surface. Journal of Nuclear Science and Technology, 2006, 43, 479-482. | 0.7 | 51 |
| 47 | Radon and 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 |
| 48 | Up-to-date radon-thoron discriminative detector for a large scale survey. Review of Scientific Instruments, 2005, 76, 113505. | 0.6 | 156 |
| 49 | Convenient methods for evaluation of indoor thoron progeny concentrations. International Congress Series, 2005, 1276, 219-220. | 0.2 | 7 |
| 50 | Soil radon flux and outdoor radon concentrations in East Asia. International Congress Series, 2005, 1276, 285-286. | 0.2 | 17 |
| 51 | Radon and Thoron Exposures for Cave Residents in Shanxi and Shaanxi Provinces. Radiation Research, 2004, 162, 390-396. | 0.7 | 90 |
| 52 | Feasibility for Mapping Radon Exhalation Rate from Soil in China. Journal of Nuclear Science and Technology, 2004, 41, 86-90. | 0.7 | 49 |
| 53 | A simple passive monitor for integrating measurements of indoor thoron concentrations. Review of Scientific Instruments, 2002, 73, 2877-2881. | 0.6 | 81 |
| 54 | Concentrations and deposition rates of ²²⁰ Rn progeny in houses. Science of the Total Environment, 2001, 272, 139-140. | 3.9 | 2 |

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|----|---|-----|-----------|
| 55 | Occurrence of , , and U in groundwater in Fujian Province, China. Journal of Environmental Radioactivity, 2001, 53, 111-120. | 0.9 | 110 |
| 56 | Estimation of Thoron Progeny Concentrations in Dwellings with Their Deposition Rate Measurements.. Japanese Journal of Health Physics, 2000, 35, 365-370. | 0.1 | 63 |
| 57 | Potential of High Thoron Exposure in China. Journal of Nuclear Science and Technology, 2000, 37, 716-719. | 0.7 | 14 |
| 58 | Potential of High Thoron Exposure in China.. Journal of Nuclear Science and Technology, 2000, 37, 716-719. | 0.7 | 4 |
| 59 | An Instrument For Measuring Equilibrium-Equivalent 222Rn And 220Rn Concentrations With Etched Track Detectors. Health Physics, 1999, 77, 584-587. | 0.3 | 14 |
| 60 | An Outline Survey of Indoor and Outdoor 222Rn Concentrations in South Korea.. Japanese Journal of Health Physics, 1998, 33, 401-406. | 0.1 | 3 |
| 61 | Feasibility for Mapping Radon Exhalation Rate from Soil in China. , 0, . | | 12 |
| 62 | Modeling Radon Flux Density from the Earth's Surface. , 0, . | | 8 |