

Zhi Zeng

List of Publications by Year in descending order

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62
all docs

62
docs citations

62
times ranked

647
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Introduction to the CDEX experiment. <i>Frontiers of Physics</i> , 2013, 8, 412-437. | 5.0 | 80 |
| 2 | Measurement of cosmic ray flux in the China JinPing underground laboratory. <i>Chinese Physics C</i> , 2013, 37, 086001. | 3.7 | 74 |
| 3 | The China Jinping Underground Laboratory and Its Early Science. <i>Annual Review of Nuclear and Particle Science</i> , 2017, 67, 231-251. | 10.2 | 73 |
| 4 | Limits on light WIMPs with a 1 kg-scale germanium detector at 160 eVee physics threshold at the China Jinping Underground Laboratory. <i>Chinese Physics C</i> , 2018, 42, 023002. | 3.7 | 40 |
| 5 | GRID: a student project to monitor the transient gamma-ray sky in the multi-messenger astronomy era. <i>Experimental Astronomy</i> , 2019, 48, 77-95. | 3.7 | 38 |
| 6 | Organ dose conversion coefficients on an ICRP-based Chinese adult male voxel model from idealized external photons exposures. <i>Physics in Medicine and Biology</i> , 2009, 54, 6645-6673. | 3.0 | 25 |
| 7 | DNA strand breaks induced by electrons simulated with Nanodosimetry Monte Carlo Simulation Code: NASIC. <i>Radiation Protection Dosimetry</i> , 2015, 166, 38-43. | 0.8 | 24 |
| 8 | The cosmic ray muon tomography facility based on large scale MRPC detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 784, 390-393. | 1.6 | 23 |
| 9 | CDEX-1 1 kg point-contact germanium detector for low mass dark matter searches. <i>Chinese Physics C</i> , 2013, 37, 126002. | 3.7 | 20 |
| 10 | Optimization of an underwater in-situ LaBr 3 :Ce spectrometer with energy self-calibration and efficiency calibration. <i>Applied Radiation and Isotopes</i> , 2017, 121, 101-108. | 1.5 | 20 |
| 11 | The temperature dependence of adsorption coefficients of ²²² Rn on activated charcoal: an experimental study. <i>Applied Radiation and Isotopes</i> , 2017, 125, 185-187. | 1.5 | 20 |
| 12 | PHOTON SAF CALCULATION BASED ON THE CHINESE MATHEMATICAL PHANTOM AND COMPARISON WITH THE ORNL PHANTOMS. <i>Health Physics</i> , 2008, 95, 716-724. | 0.5 | 18 |
| 13 | Environmental gamma background measurements in China Jinping Underground Laboratory. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 301, 443-450. | 1.5 | 18 |
| 14 | Measurement of the dead layer thickness in a p-type point contact germanium detector. <i>Chinese Physics C</i> , 2016, 40, 096001. | 3.7 | 17 |
| 15 | First results on ⁷⁶ Ge neutrinoless double beta decay from CDEX-1 experiment. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017, 60, 1. | 5.1 | 16 |
| 16 | Radioactive source terms for the Fukushima nuclear accident. <i>Science China Earth Sciences</i> , 2016, 59, 214-222. | 5.2 | 15 |
| 17 | Study on cosmogenic activation in germanium detectors for future tonne-scale CDEX experiment. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1. | 5.1 | 15 |
| 18 | Compact CubeSat Gamma-ray detector for GRID mission. <i>Nuclear Science and Techniques/Hewuli</i> , 2021, 32, 1. | 3.4 | 15 |

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|----|---|-----|-----------|
| 19 | An ICRP-based Chinese adult male voxel model and its absorbed dose for idealized photon exposures of the skeleton. <i>Physics in Medicine and Biology</i> , 2009, 54, 6675-6690. | 3.0 | 13 |
| 20 | Comparison of direct DNA strand breaks induced by low energy electrons with different inelastic cross sections. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 311, 27-36. | 1.4 | 13 |
| 21 | Characterization of a broad-energy germanium detector for its use in CJPL. <i>Nuclear Science and Techniques/Hewuli</i> , 2017, 28, 1. | 3.4 | 12 |
| 22 | Comparison of direct DNA strand break simulated with different DNA models. <i>Radiation Protection Dosimetry</i> , 2013, 156, 283-288. | 0.8 | 11 |
| 23 | Quantitative analysis and efficiency study of PSD methods for a LaBr ₃ :Ce detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 813, 56-61. | 1.6 | 11 |
| 24 | Performances of a prototype point-contact germanium detector immersed in liquid nitrogen for light dark matter search. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1. | 5.1 | 11 |
| 25 | Monte Carlo simulation of in situ LaBr gamma-ray spectrometer for marine environmental monitoring. <i>Radiation Protection Dosimetry</i> , 2011, 146, 103-106. | 0.8 | 10 |
| 26 | The characteristics of a low background germanium gamma ray spectrometer at China JinPing underground laboratory. <i>Applied Radiation and Isotopes</i> , 2014, 91, 165-170. | 1.5 | 10 |
| 27 | Results of direct dark matter detection with CDEX experiment at CJPL. <i>Journal of Physics: Conference Series</i> , 2020, 1468, 012070. | 0.4 | 10 |
| 28 | Organ dose conversion coefficients for external photon irradiation using the Chinese voxel phantom (CVP). <i>Radiation Protection Dosimetry</i> , 2009, 135, 33-42. | 0.8 | 9 |
| 29 | ²³⁴ Th/ ²³⁸ U disequilibrium and particulate organic carbon export in the northwestern South China Sea. <i>Acta Oceanologica Sinica</i> , 2011, 30, 55-62. | 1.0 | 9 |
| 30 | Neutron background measurements at China Jinping underground laboratory with a Bonner multi-sphere spectrometer. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 859, 37-40. | 1.6 | 9 |
| 31 | Experimental validation of material discrimination ability of muon scattering tomography at the TUMUTY facility. <i>Nuclear Science and Techniques/Hewuli</i> , 2019, 30, 1. | 3.4 | 9 |
| 32 | Evaluation of cosmogenic activation of copper and germanium during production in Jinping Underground Laboratory. <i>Nuclear Science and Techniques/Hewuli</i> , 2020, 31, 1. | 3.4 | 8 |
| 33 | First experimental constraints on WIMP couplings in the effective field theory framework from CDEX. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1. | 5.1 | 8 |
| 34 | On-ground calibrations of the GRID-02 gamma-ray detector. <i>Experimental Astronomy</i> , 2022, 53, 103-116. | 3.7 | 8 |
| 35 | Vertical flux of particulate organic carbon in the central South China Sea estimated from ²³⁴ Th- ²³⁸ U disequilibria. <i>Chinese Journal of Oceanology and Limnology</i> , 2008, 26, 480-485. | 0.7 | 7 |
| 36 | ²³⁴ Th-derived particulate organic carbon export flux in the western Arctic Ocean. <i>Chinese Journal of Oceanology and Limnology</i> , 2010, 28, 1146-1151. | 0.7 | 7 |

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|----|---|-----|-----------|
| 37 | Impact of the Fukushima Dai-ichi Nuclear Power Plant Accident on dolphin fishes in the Northwest Pacific. <i>Chemosphere</i> , 2020, 257, 127267. | 8.2 | 7 |
| 38 | A background simulation method for cosmogenic nuclides inside HPGe detectors for rare event experiments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 763, 364-371. | 1.6 | 6 |
| 39 | Gross beta determination in drinking water using scintillating fiber array detector. <i>Applied Radiation and Isotopes</i> , 2018, 137, 161-166. | 1.5 | 6 |
| 40 | The CR-39 etching optimization and measurement for radon in China Jinping Underground Laboratory. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 318, 1369-1377. | 1.5 | 6 |
| 41 | Radioactive impacts of the Fukushima Dai-ichi Nuclear Power Plant Accident on blue sharks in the Northwest Pacific. <i>Chemosphere</i> , 2021, 285, 131537. | 8.2 | 6 |
| 42 | Compton suppression in BEGe detectors by digital pulse shape analysis. <i>Applied Radiation and Isotopes</i> , 2017, 121, 96-100. | 1.5 | 5 |
| 43 | 3-D topological signatures and a new discrimination method for single-electron events and $0\hat{1}/2\hat{2}\hat{2}$ events in CdZnTe: A Monte Carlo simulation study. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 858, 44-52. | 1.6 | 5 |
| 44 | Design of the thermal neutron detection system for CJPL-II. <i>Chinese Physics C</i> , 2017, 41, 056002. | 3.7 | 4 |
| 45 | A study on neutron energy spectrum estimation by LaBr3:Ce detector. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 320, 859-864. | 1.5 | 3 |
| 46 | In-Situ Seawater Gamma Spectrometry with LaBr3 Detector at a Nuclear Power Plant Outlet. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 721. | 2.6 | 3 |
| 47 | ^{234}Th -derived particulate organic carbon export in the Prydz Bay, Antarctica. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 299, 621-630. | 1.5 | 2 |
| 48 | Design of cosmic veto shielding for HPGe-detector spectrometer. <i>Applied Radiation and Isotopes</i> , 2016, 109, 474-478. | 1.5 | 2 |
| 49 | Assay of low-background stainless steel by smelting for the neutrino experiment at Jinping. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 881, 65-71. | 1.6 | 2 |
| 50 | Natural radionuclides distribution, depth profiles of caesium-137 and risk assessment for soil samples in west regions of China. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2021, 327, 831-838. | 1.5 | 2 |
| 51 | Study of cosmogenic activation in copper for rare event search experiments. <i>European Physical Journal C</i> , 2021, 81, 1. | 3.9 | 2 |
| 52 | An MAP algorithm with edge-preserving prior for muon tomography. , 2014, , . | | 1 |
| 53 | Study of the material photon and electron background and the liquid argon detector veto efficiency of the CDEX-10 experiment. <i>Chinese Physics C</i> , 2015, 39, 036001. | 3.7 | 1 |
| 54 | Underground measurements of artificial radioactivity in squids from the western Pacific Ocean. <i>Applied Radiation and Isotopes</i> , 2017, 126, 112-115. | 1.5 | 1 |

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|----|--|-----|-----------|
| 55 | Analysis of the Dispersion Timeline and Isotope Activity Ratio Characterization of Airborne Radionuclides Released from the Fukushima Daiichi Nuclear Power Plant Accident. ACS Earth and Space Chemistry, 0, , . | 2.7 | 1 |
| 56 | Characterization of large area photomultiplier ETL 9357FLB for liquid argon detector. Chinese Physics C, 2014, 38, 076003. | 3.7 | 0 |
| 57 | Mathematical modelling and study of the encoding readout scheme for position sensitive detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 816, 33-39. | 1.6 | 0 |
| 58 | Real-Time Monitoring of Gross Beta Radioactivity in Tap Water and Committed Effective Dose. Health Physics, 2018, 115, 375-381. | 0.5 | 0 |
| 59 | Improving detection sensitivity of a low background BEGe spectrometer by pulse shape discrimination using rise-time ratio. Journal of Radioanalytical and Nuclear Chemistry, 2020, 325, 183-189. | 1.5 | 0 |
| 60 | Optimal design for a $1/4$ Bq/kg gamma spectrometer based on Monte Carlo simulation. Applied Radiation and Isotopes, 2020, 157, 109042. | 1.5 | 0 |
| 61 | $^{206,207,208}\text{natPb}(p,x)^{194}\text{Hg}$ and $^{209}\text{Bi}(p,x)^{194}\text{Hg}$ excitation functions in the energy range 0.04–2.6 GeV. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1026, 166151. | 1.6 | 0 |