Zhi Zeng

List of Publications by Year
in descending order

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61	791	567281	552781
papers	citations	15 h-index	26 g-index

62	62	62	647
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	206,207,208,natPb(p,x)194Hg and 209Bi(p,x)194Hg excitation functions in the energy range 0.04â€“2.6 GeV. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1026, 166151.	1.6	0
2	On-ground calibrations of the GRID-02 gamma-ray detector. Experimental Astronomy, 2022, 53, 103-116.	3.7	8
3	Natural radionuclides distribution, depth profiles of caesium-137 and risk assessment for soil samples in west regions of China. Journal of Radioanalytical and Nuclear Chemistry, 2021, 327, 831-838.	1.5	2
4	First experimental constraints on WIMP couplings in the effective field theory framework from CDEX. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	5.1	8
5	In-Situ Seawater Gamma Spectrometry with LaBr3 Detector at a Nuclear Power Plant Outlet. Journal of Marine Science and Engineering, 2021, 9, 721.	2.6	3
6	Compact CubeSat Gamma-ray detector for GRID mission. Nuclear Science and Techniques/Hewuli, 2021, 32, 1.	3.4	15
7	Radioactive impacts of the Fukushima Dai-ichi Nuclear Power Plant Accident on blue sharks in the Northwest Pacific. Chemosphere, 2021, 285, 131537.	8.2	6
8	Study of cosmogenic activation in copper for rare event search experiments. European Physical Journal C, 2021, 81, 1.	3.9	2
9	Evaluation of cosmogenic activation of copper and germanium during production in Jinping Underground Laboratory. Nuclear Science and Techniques/Hewuli, 2020, 31, 1.	3.4	8
10	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
11	Impact of the Fukushima Dai-ichi Nuclear Power Plant Accident on dolphin fishes in the Northwest Pacific. Chemosphere, 2020, 257, 127267.	8.2	7
12	Optimal design for a Î¼Bq/kg gamma spectrometer based on Monte Carlo simulation. Applied Radiation and Isotopes, 2020, 157, 109042.	1.5	0
13	Results of direct dark matter detection with CDEX experiment at CJPL. Journal of Physics: Conference Series, 2020, 1468, 012070.	0.4	10
14	GRID: a student project to monitor the transient gamma-ray sky in the multi-messenger astronomy era. Experimental Astronomy, 2019, 48, 77-95.	3.7	38
15	Experimental validation of material discrimination ability of muon scattering tomography at the TUMUTY facility. Nuclear Science and Techniques/Hewuli, 2019, 30, 1.	3.4	9
16	A study on neutron energy spectrum estimation by LaBr3:Ce detector. Journal of Radioanalytical and Nuclear Chemistry, 2019, 320, 859-864.	1.5	3
17	Study on cosmogenic activation in germanium detectors for future tonne-scale CDEX experiment. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	15
18	Performances of a prototype point-contact germanium detector immersed in liquid nitrogen for light dark matter search. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	11

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19	Gross beta determination in drinking water using scintillating fiber array detector. Applied Radiation and Isotopes, 2018, 137, 161-166.	1.5	6
20	Assay of low-background stainless steel by smelting for the neutrino experiment at Jinping. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 881, 65-71.	1.6	2
21	Limits on light WIMPs with a 1 kg-scale germanium detector at 160 eVee physics threshold at the China Jinping Underground Laboratory. Chinese Physics C, 2018, 42, 023002.	3.7	40
22	Real-Time Monitoring of Gross Beta Radioactivity in Tap Water and Committed Effective Dose. Health Physics, 2018, 115, 375-381.	0.5	0
23	The CR-39 etching optimization and measurement for radon in China Jinping Underground Laboratory. Journal of Radioanalytical and Nuclear Chemistry, 2018, 318, 1369-1377.	1.5	6
24	Compton suppression in BEGe detectors by digital pulse shape analysis. Applied Radiation and Isotopes, 2017, 121, 96-100.	1.5	5
25	Optimization of an underwater in-situ LaBr 3 :Ce spectrometer with energy self-calibration and efficiency calibration. Applied Radiation and Isotopes, 2017, 121, 101-108.	1.5	20
26	The temperature dependence of adsorption coefficients of 222 Rn on activated charcoal: an experimental study. Applied Radiation and Isotopes, 2017, 125, 185-187.	1.5	20
27	Design of the thermal neutron detection system for CJPL-II. Chinese Physics C, 2017, 41, 056002.	3.7	4
28	3-D topological signatures and a new discrimination method for single-electron events and 0 Î½Î²Î² events in CdZnTe: A Monte Carlo simulation study. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 858, 44-52.	1.6	5
29	Neutron background measurements at China Jinping underground laboratory with a Bonner multi-sphere spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 859, 37-40.	1.6	9
30	Underground measurements of artificial radioactivity in squids from the western Pacific Ocean. Applied Radiation and Isotopes, 2017, 126, 112-115.	1.5	1
31	Characterization of a broad-energy germanium detector for its use in CJPL. Nuclear Science and Techniques/Hewuli, 2017, 28, 1.	3.4	12
32	The China Jinping Underground Laboratory and Its Early Science. Annual Review of Nuclear and Particle Science, 2017, 67, 231-251.	10.2	73
33	First results on 76Ge neutrinoless double beta decay from CDEX-1 experiment. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1.	5.1	16
34	Measurement of the dead layer thickness in a p-type point contact germanium detector. Chinese Physics C, 2016, 40, 096001.	3.7	17
35	Quantitative analysis and efficiency study of PSD methods for a LaBr3:Ce detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 813, 56-61.	1.6	11
36	Design of cosmic veto shielding for HPGe-detector spectrometer. Applied Radiation and Isotopes, 2016, 109, 474-478.	1.5	2

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37	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
38	Radioactive source terms for the Fukushima nuclear accident. Science China Earth Sciences, 2016, 59, 214-222.	5.2	15
39	DNA strand breaks induced by electrons simulated with Nanodosimetry Monte Carlo Simulation Code: NASIC. Radiation Protection Dosimetry, 2015, 166, 38-43.	0.8	24
40	The cosmic ray muon tomography facility based on large scale MRPC detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 784, 390-393.	1.6	23
41	Study of the material photon and electron background and the liquid argon detector veto efficiency of the CDEX-10 experiment. Chinese Physics C, 2015, 39, 036001.	3.7	1
42	234Th-derived particulate organic carbon export in the Prydz Bay, Antarctica. Journal of Radioanalytical and Nuclear Chemistry, 2014, 299, 621-630.	1.5	2
43	A background simulation method for cosmogenic nuclides inside HPGe detectors for rare event experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 763, 364-371.	1.6	6
44	Environmental gamma background measurements in China Jinping Underground Laboratory. Journal of Radioanalytical and Nuclear Chemistry, 2014, 301, 443-450.	1.5	18
45	Characterization of large area photomultiplier ETL 9357FLB for liquid argon detector. Chinese Physics C, 2014, 38, 076003.	3.7	0
46	The characteristics of a low background germanium gamma ray spectrometer at China JinPing underground laboratory. Applied Radiation and Isotopes, 2014, 91, 165-170.	1.5	10
47	An MAP algorithm with edge-preserving prior for muon tomography. , 2014, , .		1
48	Introduction to the CDEX experiment. Frontiers of Physics, 2013, 8, 412-437.	5.0	80
49	Comparison of direct DNA strand break simulated with different DNA models. Radiation Protection Dosimetry, 2013, 156, 283-288.	0.8	11
50	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
51	CDEX-1 1 kg point-contact germanium detector for low mass dark matter searches. Chinese Physics C, 2013, 37, 126002.	3.7	20
52	Measurement of cosmic ray flux in the China JinPing underground laboratory. Chinese Physics C, 2013, 37, 086001.	3.7	74
53	Monte Carlo simulation of in situ LaBr gamma-ray spectrometer for marine environmental monitoring. Radiation Protection Dosimetry, 2011, 146, 103-106.	0.8	10
54	234Th/238U disequilibrium and particulate organic carbon export in the northwestern South China Sea. Acta Oceanologica Sinica, 2011, 30, 55-62.	1.0	9

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55	234Th-derived particulate organic carbon export flux in the western Arctic Ocean. Chinese Journal of Oceanology and Limnology, 2010, 28, 1146-1151.	0.7	7
56	Organ dose conversion coefficients on an ICRP-based Chinese adult male voxel model from idealized external photons exposures. Physics in Medicine and Biology, 2009, 54, 6645-6673.	3.0	25
57	Organ dose conversion coefficients for external photon irradiation using the Chinese voxel phantom (CVP). Radiation Protection Dosimetry, 2009, 135, 33-42.	0.8	9
58	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
59	Vertical flux of particulate organic carbon in the central South China Sea estimated from 234Th-238U disequilibria. Chinese Journal of Oceanology and Limnology, 2008, 26, 480-485.	0.7	7
60	PHOTON SAF CALCULATION BASED ON THE CHINESE MATHEMATICAL PHANTOM AND COMPARISON WITH THE ORNL PHANTOMS. Health Physics, 2008, 95, 716-724.	0.5	18
61	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