

Zhi Deng

List of Publications by Year in descending order

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43
papers

568
citations

1040056

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all docs

43
docs citations

43
times ranked

515
citing authors

#	ARTICLE	IF	CITATIONS
1	Challenges in QCD matter physics –The scientific programme of the Compressed Baryonic Matter experiment at FAIR. European Physical Journal A, 2017, 53, 1.	2.5	222
2	Introduction to the CDEX experiment. Frontiers of Physics, 2013, 8, 412-437.	5.0	80
3	Development of an Eight-Channel Time-Based Readout ASIC for PET Applications. IEEE Transactions on Nuclear Science, 2011, 58, 3212-3218.	2.0	45
4	Development of a prototype PET scanner with depth-of-interaction measurement using solid-state photomultiplier arrays and parallel readout electronics. Physics in Medicine and Biology, 2014, 59, 1223-1238.	3.0	40
5	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
6	CDEX-1 1 kg point-contact germanium detector for low mass dark matter searches. Chinese Physics C, 2013, 37, 126002.	3.7	20
7	Design and construction of muon tomography facility based on MRPC detector for high-Z materials detection. , 2012, , .		17
8	First results on ^{76}Ge neutrinoless double beta decay from CDEX-1 experiment. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1.	5.1	16
9	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
10	Energy and timing measurement with time-based detector readout for PET applications: Principle and validation with discrete circuit components. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 641, 128-135.	1.6	9
11	GERO: a general SCA-based readout ASIC for micro-pattern gas detectors with configurable storage depth and on-chip digitizer. Nuclear Science and Techniques/Hewuli, 2019, 30, 1.	3.4	9
12	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
13	Comparison of nanoparticle generation by two plasma techniques: Dielectric barrier discharge and spark discharge. Aerosol Science and Technology, 2017, 51, 206-213.	3.1	7
14	Development of cryogenic CMOS Readout ASICs for the Point-Contact HPGe Detectors for Dark Matter Search and Neutrino Experiments. Journal of Physics: Conference Series, 2017, 834, 012004.	0.4	4
15	Comparison of JFET/MOS/HEMT Based Low Noise Charge Sensitive Preamplifiers for HPGe Detectors in Cryogenic Temperature. Journal of Physics: Conference Series, 2019, 1182, 012001.	0.4	4
16	A Switched Capacitor Waveform Digitizing ASIC at Cryogenic Temperature for HPGe Detectors. IEEE Transactions on Nuclear Science, 2021, 68, 2315-2322.	2.0	4
17	Design and initial performance evaluation of a novel PET detector module based on compact SiPM arrays. , 2011, , .		3
18	Design of a low noise readout ASIC for CdZnTe detector. , 2012, , .		3

#	ARTICLE	IF	CITATIONS
19	A fast neutron spectrometer based on GEM-TPC. , 2012, , .		3
20	Development of multi-channel fast SiPM readout electronics for clinical TOF PET detector. , 2014, , .		3
21	CryoSCA: A Cryogenic Switched Capacitor Waveform Digitizer ASIC for the Point-Contact HPGe Detectors. , 2018, , .		3
22	Development of the full-chain cryogenic readout electronics for the point-contact HPGe detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 947, 162739.	1.6	3
23	Optimized energy thresholds in a spectral computed tomography scan for contrast agent imaging. Nuclear Science and Techniques/Hewuli, 2019, 30, 1.	3.4	2
24	Performance study of a novel sampling TPC prototype detector based on THGEM. Radiation Detection Technology and Methods, 2019, 3, 1.	0.8	2
25	A General Study on Sampling Frequency Limits for Digital Spectrometer. , 2006, , .		1
26	A readout ASIC for GEM detectors. , 2007, , .		1
27	A Conceptual Design of the Readout System for a Neutrino Experiment at SNS. IEEE Transactions on Nuclear Science, 2007, 54, 1816-1823.	2.0	1
28	CASA: A readout ASIC for gas detectors with self-amplification. , 2008, , .		1
29	GEM imaging detector based on FET array readout. , 2011, , .		1
30	Preliminary research on performance evaluation and TUCCL model for muon tomography. , 2013, , .		1
31	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
32	The design of time projection chamber for fission cross-section measurements. , 2016, , .		1
33	An Energy-Resolved Photon-Counting Readout Electronics for Scintillator Based on Pole-Zero Compensation and ToT Method. , 2019, , .		1
34	Cryogenic Bandgap Reference Circuit With Compact Model Parameter Extraction of MOSFETs and BJTs for HPGe Detectors. IEEE Transactions on Nuclear Science, 2020, 67, 2209-2216.	2.0	1
35	Analysis on sampling bounds for digital spectrometers. , 2007, , .		0
36	A BGA package design of a read-out ASIC for GEM imaging detector. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
37	A low noise readout ASIC for CdTe/CdZnTe detectors. , 2010, , .		0
38	Readout electronics development based on an ASIC for PET detector using PMT-quadrant-sharing. , 2012, , .		0
39	A scalable digital pulse process module for the MRPC detector of muon tomography. , 2012, , .		0
40	A quick turn packaging solution and its application. , 2012, , .		0
41	A quasi-linear position decoding method based on TOT for PET detector readout. , 2013, , .		0
42	Design and development of novel and practical PET detectors for advanced imaging applications. , 2014, , .		0
43	Radiation Characterization of a Switched Capacitor Array Readout ASIC for Time Projection Chamber. , 2017, , .		0