

# Zhi Deng

## List of Publications by Year in descending order

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43  
papers

568  
citations

1040056

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h-index

713466

21  
g-index

43  
all docs

43  
docs citations

43  
times ranked

515  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | 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         |
| 2  | A Switched Capacitor Waveform Digitizing ASIC at Cryogenic Temperature for HPGe Detectors. IEEE Transactions on Nuclear Science, 2021, 68, 2315-2322.   | 2.0 | 4         |
| 3  | 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         |
| 4  | 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         |
| 5  | 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         |
| 6  | 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         |
| 7  | Optimized energy thresholds in a spectral computed tomography scan for contrast agent imaging. Nuclear Science and Techniques/Hewuli, 2019, 30, 1.  | 3.4 | 2         |
| 8  | Performance study of a novel sampling TPC prototype detector based on THGEM. Radiation Detection Technology and Methods, 2019, 3, 1.  | 0.8 | 2         |
| 9  | An Energy-Resolved Photon-Counting Readout Electronics for Scintillator Based on Pole-Zero Compensation and ToT Method. , 2019, , .   |     | 1         |
| 10 | 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        |
| 11 | 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        |
| 12 | CryoSCA: A Cryogenic Switched Capacitor Waveform Digitizer ASIC for the Point-Contact HPGe Detectors. , 2018, , .   |     | 3         |
| 13 | 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       |
| 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 | First results on <sup>76</sup> Ge neutrinoless double beta decay from CDEX-1 experiment. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1.  | 5.1 | 16        |
| 16 | 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         |
| 17 | Radiation Characterization of a Switched Capacitor Array Readout ASIC for Time Projection Chamber. , 2017, , .  |     | 0         |
| 18 | The design of time projection chamber for fission cross-section measurements. , 2016, , .   |     | 1         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | 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         |
| 20 | 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        |
| 21 | Development of multi-channel fast SiPM readout electronics for clinical TOF PET detector. , 2014, , .  |     | 3         |
| 22 | Design and development of novel and practical PET detectors for advanced imaging applications. , 2014, , .   |     | 0         |
| 23 | Introduction to the CDEX experiment. Frontiers of Physics, 2013, 8, 412-437.   | 5.0 | 80        |
| 24 | Preliminary research on performance evaluation and TUCCI model for muon tomography. , 2013, , .  |     | 1         |
| 25 | A quasi-linear position decoding method based on TOT for PET detector readout. , 2013, , .   |     | 0         |
| 26 | CDEX-1 1 kg point-contact germanium detector for low mass dark matter searches. Chinese Physics C, 2013, 37, 126002.   | 3.7 | 20        |
| 27 | Readout electronics development based on an ASIC for PET detector using PMT-quadrant-sharing. , 2012, , .  |     | 0         |
| 28 | A scalable digital pulse process module for the MRPC detector of muon tomography. , 2012, , .  |     | 0         |
| 29 | Design of a low noise readout ASIC for CdZnTe detector. , 2012, , .  |     | 3         |
| 30 | A quick turn packaging solution and its application. , 2012, , .   |     | 0         |
| 31 | Design and construction of muon tomography facility based on MRPC detector for high-Z materials detection. , 2012, , .   |     | 17        |
| 32 | A fast neutron spectrometer based on GEM-TPC. , 2012, , .  |     | 3         |
| 33 | Design and initial performance evaluation of a novel PET detector module based on compact SiPM arrays. , 2011, , .   |     | 3         |
| 34 | Development of an Eight-Channel Time-Based Readout ASIC for PET Applications. IEEE Transactions on Nuclear Science, 2011, 58, 3212-3218.   | 2.0 | 45        |
| 35 | 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         |
| 36 | GEM imaging detector based on FET array readout. , 2011, , .   |     | 1         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | A BGA package design of a read-out ASIC for GEM imaging detector. , 2010, , .  |     | 0         |
| 38 | A low noise readout ASIC for CdTe/CdZnTe detectors. , 2010, , .  |     | 0         |
| 39 | CASA: A readout ASIC for gas detectors with self-amplification. , 2008, , .  |     | 1         |
| 40 | A readout ASIC for GEM detectors. , 2007, , .  |     | 1         |
| 41 | Analysis on sampling bounds for digital spectrometers. , 2007, , .   |     | 0         |
| 42 | 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         |
| 43 | A General Study on Sampling Frequency Limits for Digital Spectrometer. , 2006, , .   |     | 1         |