Ke Han

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3166220/publications.pdf

Version: 2024-02-01

105 papers	5,624 citations	94433 37 h-index	74163 75 g-index
105 all docs	105 docs citations	105 times ranked	7710 citing authors

#	Article	IF	Citations
1	CUORE opens the door to tonne-scale cryogenics experiments. Progress in Particle and Nuclear Physics, 2022, 122, 103902.	14.4	16
2	Light yield and field dependence measurement in PandaX-II dual-phase xenon detector. Journal of Instrumentation, 2022, 17, P01008.	1.2	0
3	REST-for-Physics, a ROOT-based framework for event oriented data analysis and combined Monte Carlo response. Computer Physics Communications, 2022, 273, 108281.	7.5	10
4	Search for Majorana neutrinos exploiting millikelvin cryogenics with CUORE. Nature, 2022, 604, 53-58.	27.8	74
5	Search for Cosmic-Ray Boosted Sub-GeV Dark Matter at the PandaX-II Experiment. Physical Review Letters, 2022, 128, 171801.	7.8	33
6	Measurement of high-pressure xenon gas absorption in acrylic. Journal of Instrumentation, 2022, 17, P05027.	1.2	1
7	A search for two-component Majorana dark matter in a simplified model using the full exposure data of PandaX-II experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 832, 137254.	4.1	1
8	Search for neutrinoless <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mi>Î²</mml:mi><mml:mo>+</mml:mo></mml:msup></mml:r EC decay of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Te</mml:mi><mml:mprescripts /><mml:none /><mml:mn>120</mml:mn></mml:mmultiscripts></mml:math> with CUORE. Physical Review C, 2022, 105, .	2.9	1
9	Expected sensitivity to 128Te neutrinoless double beta decay with the CUORE TeO2 cryogenic bolometers. Journal of Low Temperature Physics, 2022, 209, 788-795.	1.4	1
10	A Search for Solar Axions and Anomalous Neutrino Magnetic Moment with the Complete PandaX-II Data*. Chinese Physics Letters, 2021, 38, 011301.	3.3	24
11	Characterization of cubic Li$$_{2}$$^{100}MoO$$_4$$ crystals for the CUPID experiment. European Physical Journal C, 2021, 81, 1.	3.9	21
12	Enhanced search sensitivity to the double beta decay of 136Xe to excited states with topological signatures. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	5.1	4
13	Measurement of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>2</mml:mn><mml:mi>Î½</mml:mi><mml:mi>Î²</mml:mi><mml:mi>Î²</mml:mi></mml:math> Decay Half-Life of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Te</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>130</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>	7.8	29
14	Search for Light Dark Matterâ€“Electron Scattering in the PandaX-II Experiment. Physical Review Letters, 2021, 126, 211803.	7.8	49
15	Signal identification with Kalman Filter towards background-free neutrinoless double beta decay searches in gaseous detectors. Journal of High Energy Physics, 2021, 2021, 1.	4.7	5
16	Determination of responses of liquid xenon to low energy electron and nuclear recoils using a PandaX-II detector *. Chinese Physics C, 2021, 45, 075001.	3.7	12
17	Novel technique for the study of pileup events in cryogenic bolometers. Physical Review C, 2021, 104, .	2.9	16
18	Search for double-beta decay of $$mathrm {^{130}Te}$$ to the $$0^+$$ states of $$mathrm {^{130}Xe}$$ with CUORE. European Physical Journal C, 2021, 81, 1.	3.9	6

#	Article	IF	Citations
19	Constraining self-interacting dark matter with the full dataset of PandaX-II. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	5.1	12
20	Dark Matter Search Results from the PandaX-4T Commissioning Run. Physical Review Letters, 2021, 127, 261802.	7.8	228
21	Optimization of a single module of CUPID. Journal of Physics: Conference Series, 2021, 2156, 012228.	0.4	0
22	Screener3D: a gaseous time projection chamber for ultra-low radioactive material screening. Nuclear Science and Techniques/Hewuli, 2021, 32, 1.	3.4	3
23	Searching for New Physics in two-neutrino double beta decay with CUPID. Journal of Physics: Conference Series, 2021, 2156, 012233.	0.4	1
24	Development of a 6D Kalman filter for charged particle tracking in time projection chamber without magnetic field. Radiation Detection Technology and Methods, 2020, 4, 70-77.	0.8	0
25	CUORE: The first bolometric experiment at the ton scale for the search for neutrino-less double beta decay. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 958, 162440.	1.6	2
26	Topological background discrimination in the PandaX-III neutrinoless double beta decay experiment. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 045108.	3.6	13
27	An improved evaluation of the neutron background in the PandaX-II experiment. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	5.1	13
28	Lowering the Energy Threshold of the CUORE Experiment: Benefits in the Surface Alpha Events Reconstruction. Journal of Low Temperature Physics, 2020, 200, 321-330.	1.4	4
29	Improved Limit on Neutrinoless Double-Beta Decay in <mmlmath xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mo>â€‰</mml:mo><mml:mi>Te</mml:mi></mml:mrow><mml:none /><mml:none /><mml:mrow><mml:mn>130</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> with CUORE. Physical Review Letters, 2020, 124, 122501.	7.8	133
30	First results from the CUORE experiment. Journal of Physics: Conference Series, 2020, 1342, 012002.	0.4	1
31	Initial performance of the CUORE detector. Journal of Physics: Conference Series, 2020, 1342, 012114.	0.4	0
32	PandaX-III: Searching for Neutrinoless Double Beta Decay with High Pressure Gaseous Time Projection Chambers. Journal of Physics: Conference Series, 2020, 1342, 012095.	0.4	3
33	The CUORE Detector and Results. Journal of Low Temperature Physics, 2020, 199, 519-528.	1.4	14
34	Results of dark matter search using the full PandaX-II exposure *. Chinese Physics C, 2020, 44, 125001.	3.7	80
35	Internal calibration of the PandaX-II detector with radon gaseous sources. Journal of Instrumentation, 2020, 15, P12038-P12038.	1.2	8
36	Perspectives of lowering CUORE thresholds with Optimum Trigger. Journal of Physics: Conference Series, 2020, 1643, 012020.	0.4	1

#	Article	IF	Citations
37	Status and results from the CUORE experiment. International Journal of Modern Physics A, 2020, 35, 2044016.	1.5	0
38	Dark matter direct search sensitivity of the PandaX-4T experiment. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	103
39	Double-beta decay of $$^{130}hbox {Te}$$ to the first $$0^+$$ excited state of $$^{130}hbox {Xe}$$ with CUORE-0. European Physical Journal C, 2019, 79, 1.	3.9	10
40	The PROSPECT reactor antineutrino experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 922, 287-309.	1.6	40
41	PandaX-II constraints on spin-dependent WIMP-nucleon effective interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 193-198.	4.1	51
42	Searching for neutrino-less double beta decay of ¹³⁶Xe with PandaX-II liquid xenon detector *. Chinese Physics C, 2019, 43, 113001.	3.7	20
43	CUORE: The first bolometric experiment at the ton scale for rare decay searches. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 936, 158-161.	1.6	0
44	Results from the Cuore Experiment â€. Universe, 2019, 5, 10.	2.5	5
45	Study of rare nuclear processes with CUORE. International Journal of Modern Physics A, 2018, 33, 1843002.	1.5	11
46	First Results from CUORE: A Search for Lepton Number Violation via <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>0</mml:mn><mml:mi>Î½</mml:mi><mml:mi>Î²</mml:mi><mml:mi>Î²</mml:mi></mml:mrow> Decay of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Te</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>130</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow><	7.8	246
47	First Search for Short-Baseline Neutrino Oscillations at HFIR with PROSPECT. Physical Review Letters, 2018, 121, 251802.	7.8	99
48	The CUORE and CUORE-0 experiments at LNGS. Journal of Physics: Conference Series, 2018, 1056, 012009.	0.4	0
49	Design and commissioning of a 600 L Time Projection Chamber with Microbulk Micromegas. Journal of Instrumentation, 2018, 13, P06012-P06012.	1.2	12
50	Search for neutrinoless Î²+EC decay of Te120 with CUORE-0. Physical Review C, 2018, 97, .	2.9	15
51	Performance of a segmented ⁶Li-loaded liquid scintillator detector for the PROSPECT experiment. Journal of Instrumentation, 2018, 13, P06023-P06023.	1.2	23
52	Constraining Dark Matter Models with a Light Mediator at the PandaX-II Experiment. Physical Review Letters, 2018, 121, 021304.	7.8	57
53	Signal-background discrimination with convolutional neural networks in the PandaX-III experiment using MC simulation. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	5.1	20
54	Measurement of the two-neutrino double-beta decay half-life of ^{130}Te with the CUORE-0 experiment. European Physical Journal C, 2017, 77, 1.	3.9	73

#	Article	IF	Citations
55	Spin-Dependent Weakly-Interacting-Massive-Particleâ€“Nucleon Cross Section Limits from First Data of PandaX-II Experiment. Physical Review Letters, 2017, 118, 071301.	7.8	101
56	PandaX-III: Searching for neutrinoless double beta decay with high pressure 136Xe gas time projection chambers. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1.	5.1	86
57	The CUORE cryostat and its bolometric detector. Journal of Instrumentation, 2017, 12, C02055-C02055.	1.2	2
58	Modeling Iridium-Based Trilayer and Bilayer Transition-Edge Sensors. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	7
59	Limits on Axion Couplings from the First 80 Days of Data of the PandaX-II Experiment. Physical Review Letters, 2017, 119, 181806.	7.8	87
60	Dark Matter Results from 54-Ton-Day Exposure of PandaX-II Experiment. Physical Review Letters, 2017, 119, 181302.	7.8	764
61	Results from CUORE and CUORE-0. AIP Conference Proceedings, 2017, , .	0.4	0
62	The projected background for the CUORE experiment. European Physical Journal C, 2017, 77, 1.	3.9	90
63	CUORE sensitivity to $$0u eta eta $$ decay. European Physical Journal C, 2017, 77, 1.	3.9	31
64	Exploring the dark matter inelastic frontier with 79.6 days of PandaX-II data. Physical Review D, 2017, 96, .	4.7	12
65	Low energy analysis techniques for CUORE. European Physical Journal C, 2017, 77, 1.	3.9	17
66	The CUORE and CUORE-0 experiments at LNGS. EPJ Web of Conferences, 2017, 164, 07047.	0.3	0
67	Status and prospects for CUORE. Journal of Physics: Conference Series, 2017, 888, 012034.	0.4	3
68	Results from the CUORE-0 experiment. Journal of Physics: Conference Series, 2016, 718, 062007.	0.4	1
69	Status of the CUORE and results from the CUORE-0 neutrinoless double beta decay experiments. Nuclear and Particle Physics Proceedings, 2016, 273-275, 1719-1725.	0.5	4
70	Dark Matter Results from First 98.7 Days of Data from the PandaX-II Experiment. Physical Review Letters, 2016, 117, 121303.	7.8	501
71	Analysis techniques for the evaluation of the neutrinoless double-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math>decay lifetime in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Te</mml:mi><mml:mprescripts /><mml:none /><mml:mn>130</mml:mn></mml:mmultiscripts></mml:math>with the CUORE-0 detector. Physical Review C, 2016, 93, .	2.9	64
72	The PROSPECT physics program. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 113001.	3.6	53

#	Article	IF	Citations
73	CUORE-0 detector: design, construction and operation. Journal of Instrumentation, 2016, 11, P07009-P07009.	1.2	64
74	Background radiation measurements at high power research reactors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 806, 401-419.	1.6	22
75	Dark Matter Search with CUORE-0 and CUORE. Physics Procedia, 2015, 61, 13-20.	1.2	2
76	Light collection and pulse-shape discrimination in elongated scintillator cells for the PROSPECT reactor antineutrino experiment. Journal of Instrumentation, 2015, 10, P11004-P11004.	1.2	19
77	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Be</mml:mi><mml:mprescripts /><mml:none /><mml:mn>7</mml:mn></mml:mmultiscripts></mml:math>solar neutrino measurement with KamLAND. Search for Neutrinoless Double-Beta Decay of<mml:math	2.9	48
78	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Te</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>130</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>with CUORE-0. Physical Review Letters, 2015, 115, 102502.	7.8	189
79	First data from CUORE-0. Physics Procedia, 2015, 61, 289-294.	1.2	1
80	Results of CUORE-0 and prospects for the CUORE experiment. Nuclear and Particle Physics Proceedings, 2015, 265-266, 73-76.	0.5	2
81	CUORE-0 results and prospects for the CUORE experiment. AIP Conference Proceedings, 2015, , .	0.4	0
82	First neutrinoless double beta decay results from CUORE-0. AIP Conference Proceedings, 2015, , .	0.4	1
83	Neutrinoless double-beta decay search with CUORE and CUORE-0 experiments. EPJ Web of Conferences, 2015, 90, 03004.	0.3	1
84	The CUORE and CUORE-0 experiments at Gran Sasso. EPJ Web of Conferences, 2015, 95, 04024.	0.3	1
85	Searching for Neutrinoless Double-Beta Decay of¹³⁰Te with CUORE. Advances in High Energy Physics, 2015, 2015, 1-13.	1.1	109
86	A compact ultra-clean system for deploying radioactive sources inside the KamLAND detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 769, 88-96.	1.6	11
87	Exploring the neutrinoless double beta decay in the inverted neutrino hierarchy with bolometric detectors. European Physical Journal C, 2014, 74, 1.	3.9	85
88	Initial performance of the CUORE-0 experiment. European Physical Journal C, 2014, 74, 1.	3.9	52
89	First CUORE-0 Performance Results and Status of CUORE Experiment. Journal of Low Temperature Physics, 2014, 176, 986-994.	1.4	1
90	The low energy spectrum of TeO₂bolometers: results and dark matter perspectives for the CUORE-0 and CUORE experiments. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 038-038.	5.4	15

#	Article	IF	Citations
91	Validation of techniques to mitigate copper surface contamination in CUORE. Astroparticle Physics, 2013, 45, 13-22.	4.3	66
92	Limit on Neutrinoless<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi><mml:mi>Î²</mml:mi></mml:math>Decay of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>Xe</mml:mi><mml:mprescripts /><mml:none /><mml:mn>136</mml:mn></mml:mmultiscripts></mml:math>from the First Phase of KamLAND-Zen and Comparison with the Positive Claim in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"	7.8	343
93	Search for 14.4 keV solar axions from M1 transition of⁵⁷Fe with CUORE crystals. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 007-007.	5.4	19
94	Reactor on-off antineutrino measurement with KamLAND. Physical Review D, 2013, 88, .	4.7	225
95	Valence neutron properties relevant to the neutrinoless double-Î²decay of130Te. Physical Review C, 2013, 87, .	2.9	37
96	Limits on Majoron-emitting double-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math>decays of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>136</mml:mn></mml:msup></mml:math>Xe in the KamLAND-Zen experiment. Physical Review C, 2012, 86, .	2.9	75
97	[illegible] display="inline"><mml:mrow><mml:mi mathvariant="bold-italic">Î²</mml:mi></mml:mrow></mml:math>decay half-life of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>136</mml:mn></mml:msup></mml:math>Xe with the KamLAND-Zen experiment. Physical Review C, 2012, 85, .	2.9	167
98	SEARCH FOR EXTRATERRESTRIAL ANTINEUTRINO SOURCES WITH THE KamLAND DETECTOR. Astrophysical Journal, 2012, 745, 193.	4.5	88
99	CUORE crystal validation runs: Results on radioactive contamination and extrapolation to CUORE background. Astroparticle Physics, 2012, 35, 839-849.	4.3	62
100	Constraints on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Î¸</mml:mi><mml:mn>13</mml:mn></mml:msub></mml:math>from a three-flavor oscillation analysis of reactor antineutrinos at KamLAND. Physical Review D, 2011, 83, .	4.7	221
101	Partial radiogenic heat model for Earth revealed by geoneutrino measurements. Nature Geoscience, 2011, 4, 647-651.	12.9	196
102	Measurement of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>8</mml:mn></mml:msup></mml:math>B solar neutrino flux with the KamLAND liquid scintillator detector. Physical Review C, 2011, 84, .	2.9	60
103	Search for stable strange quark matter in lunar soil using the mass spectrometry technique. Journal of Physics G: Nuclear and Particle Physics, 2009, 36, 064048.	3.6	2
104	Search for Stable Strange Quark Matter in Lunar Soil. Physical Review Letters, 2009, 103, 092302.	7.8	13
105	New results from the CUORE experiment. International Journal of Modern Physics A, 0, , .	1.5	0