

Davide Chiesa

List of Publications by Year in descending order

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119
papers

3,036
citations

236925

25
h-index

161849

54
g-index

121
all docs

121
docs citations

121
times ranked

1988
citing authors

#	ARTICLE	IF	CITATIONS
19	Calibration strategy of the JUNO experiment. Journal of High Energy Physics, 2021, 2021, 1.	4.7	39
20	Measurement of the neutron flux at spallation sources using multi-foil activation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 902, 14-24.	1.6	36
21	TRIGA reactor absolute neutron flux measurement using activated isotopes. Progress in Nuclear Energy, 2014, 70, 249-255.	2.9	35
22	Comparison of a Modal Method and a Proper Orthogonal Decomposition approach for multi-group time-dependent reactor spatial kinetics. Annals of Nuclear Energy, 2014, 71, 217-229.	1.8	34
23	Optimization of the JUNO liquid scintillator composition using a Daya Bay antineutrino detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 988, 164823.	1.6	34
24	CUORE sensitivity to θ decay. European Physical Journal C, 2017, 77, 1.	3.9	31
25	Measurement of the λ_{Te} Decay Half-Life of ^{125}Te . λ_{Te}	7.8	29
26	Feasibility and physics potential of detecting ν_{B} solar neutrinos at JUNO *. Chinese Physics C, 2021, 45, 023004.	3.7	26
27	First search for Lorentz violation in double beta decay with scintillating calorimeters. Physical Review D, 2019, 100, .	4.7	24
28	A zero dimensional model for simulation of TRIGA Mark II dynamic response. Progress in Nuclear Energy, 2013, 68, 43-54.	2.9	21
29	Embedded readout electronics R&D for the large PMTs in the JUNO experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 985, 164600.	1.6	21
30	Characterization of cubic Li_2MoO_4 crystals for the CUPID experiment. European Physical Journal C, 2021, 81, 1.	3.9	21
31	Bayesian statistics applied to neutron activation data for reactor flux spectrum analysis. Annals of Nuclear Energy, 2014, 70, 157-168.	1.8	19
32	Measurement and simulation of the neutron flux distribution in the TRIGA Mark II reactor core. Annals of Nuclear Energy, 2015, 85, 925-936.	1.8	19
33	Final characterization of the first critical configuration for the TRIGA Mark II reactor of the University of Pavia using the Monte Carlo code MCNP. Progress in Nuclear Energy, 2014, 74, 129-135.	2.9	18
34	Fuel burnup analysis of the TRIGA Mark II reactor at the University of Pavia. Annals of Nuclear Energy, 2016, 96, 270-276.	1.8	18
35	Characterization of the TRIGA Mark II reactor full-power steady state. Nuclear Engineering and Design, 2016, 300, 308-321.	1.7	18
36	Low energy analysis techniques for CUORE. European Physical Journal C, 2017, 77, 1.	3.9	17

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37	Distillation and stripping pilot plants for the JUNO neutrino detector: Design, operations and reliability. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 925, 6-17.	1.6	17
38	GIGJ: A Crustal Gravity Model of the Guangdong Province for Predicting the Geoneutrino Signal at the JUNO Experiment. Journal of Geophysical Research: Solid Earth, 2019, 124, 4231-4249.	3.4	16
39	A CUPID Li^{2+} $^{100}\text{MoO}_4$ scintillating bolometer tested in the CROSS underground facility. Journal of Instrumentation, 2021, 16, P02037-P02037.	1.2	16
40	Novel technique for the study of pileup events in cryogenic bolometers. Physical Review C, 2021, 104, .	2.9	16
41	CUORE opens the door to tonne-scale cryogenics experiments. Progress in Particle and Nuclear Physics, 2022, 122, 103902.	14.4	16
42	Search for neutrinoless \hat{I}^2 +EC decay of Te^{120} with CUORE-0. Physical Review C, 2018, 97, .	2.9	15
43	Nanoseconds Timing System Based on IEEE 1588 FPGA Implementation. IEEE Transactions on Nuclear Science, 2019, 66, 1151-1158.	2.0	15
44	The design and sensitivity of JUNO's scintillator radiopurity pre-detector OSIRIS. European Physical Journal C, 2021, 81, 1.	3.9	15
45	The CUORE Detector and Results. Journal of Low Temperature Physics, 2020, 199, 519-528.	1.4	14
46	Radioactivity control strategy for the JUNO detector. Journal of High Energy Physics, 2021, 2021, 1.	4.7	13
47	Search for neutrinoless double beta decay of ^{64}Zn and ^{70}Zn with CUPID-0. European Physical Journal C, 2020, 80, 1.	3.9	12
48	Study of rare nuclear processes with CUORE. International Journal of Modern Physics A, 2018, 33, 1843002.	1.5	11
49	JUNO sensitivity to low energy atmospheric neutrino spectra. European Physical Journal C, 2021, 81, 1.	3.9	11
50	Double-beta decay of ^{130}Te to the first 0^+ excited state of ^{130}Xe with CUORE-0. European Physical Journal C, 2019, 79, 1.	3.9	10
51	A new model with Serpent for the first criticality benchmarks of the TRIGA Mark II reactor. Annals of Nuclear Energy, 2018, 113, 171-176.	1.8	10
52	Coherent elastic nuclear scattering of ^{51}Cr neutrinos. European Physical Journal C, 2019, 79, 1.	3.9	9
53	A new technique for direct investigation of dark matter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 744, 61-68.	1.6	7
54	Resolution enhancement with light/heat decorrelation in CUPID-0 bolometric detector. Journal of Instrumentation, 2019, 14, P08017-P08017.	1.2	7

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55	Background identification in cryogenic calorimeters through α - α delayed coincidences. European Physical Journal C, 2021, 81, 722.	3.9	7
56	Search for double-beta decay of ${}^{130}\text{Te}$ to the 0^+ states of ${}^{130}\text{Xe}$ with CUORE. European Physical Journal C, 2021, 81, 1.	3.9	6
57	Results from the Cuore Experiment $\hat{\epsilon}$. Universe, 2019, 5, 10.	2.5	5
58	Search for double β -decay modes of ${}^{64}\text{Zn}$ using purified zinc. European Physical Journal C, 2021, 81, 1.	3.9	5
59	Measurement of ${}^{216}\text{Po}$ half-life with the CUPID-0 experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 822, 136642.	4.1	5
60	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
61	The LUCIFER Project: Achievements and Near Future Prospects. Journal of Low Temperature Physics, 2016, 184, 852-858.	1.4	4
62	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
63	Status and prospects for CUORE. Journal of Physics: Conference Series, 2017, 888, 012034.	0.4	3
64	Charge reconstruction in large-area photomultipliers. Journal of Instrumentation, 2018, 13, P02008-P02008.	1.2	3
65	NIEL Dose Analysis on triple and single junction InGaP/GaAs/Ge solar cells irradiated with electrons, protons and neutrons. , 2019, , .		3
66	Characterization of TRIGA RC-1 neutron irradiation facilities for radiation damage testing. European Physical Journal Plus, 2020, 135, 1.	2.6	3
67	A Serpent/OpenFOAM coupling for 3D burnup analysis. European Physical Journal Plus, 2020, 135, 1.	2.6	3
68	Damping signatures at JUNO, a medium-baseline reactor neutrino oscillation experiment. Journal of High Energy Physics, 2022, 2022, .	4.7	3
69	Study of an intrinsically safe infrastructure for training and research on nuclear technologies. EPJ Web of Conferences, 2014, 79, 02004.	0.3	2
70	Dark Matter Search with CUORE-0 and CUORE. Physics Procedia, 2015, 61, 13-20.	1.2	2
71	CUORE and Beyond: Bolometric Techniques to Explore Inverted Neutrino Mass Hierarchy. Physics Procedia, 2015, 61, 241-250.	1.2	2
72	Results of CUORE-0 and prospects for the CUORE experiment. Nuclear and Particle Physics Proceedings, 2015, 265-266, 73-76.	0.5	2

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73	Object-Oriented Modeling and simulation of a TRIGA reactor plant with Dymola. Energy Procedia, 2016, 101, 42-49.	1.8	2
74	The CUORE cryostat and its bolometric detector. Journal of Instrumentation, 2017, 12, C02055-C02055.	1.2	2
75	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
76	Development of a low background alpha β /gamma coincidence detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1003, 165290.	1.6	2
77	Improving radioactive contaminant identification through the analysis of delayed coincidences with an α -spectrometer. European Physical Journal C, 2021, 81, 1.	3.9	2
78	Machine Learning Techniques for Pile-Up Rejection in Cryogenic Calorimeters. Journal of Low Temperature Physics, 2022, 209, 1024-1031.	1.4	2
79	A novel method for direct investigation of dark matter. International Journal of Modern Physics A, 2014, 29, 1443005.	1.5	1
80	First CUORE-0 Performance Results and Status of CUORE Experiment. Journal of Low Temperature Physics, 2014, 176, 986-994.	1.4	1
81	First data from CUORE-0. Physics Procedia, 2015, 61, 289-294.	1.2	1
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	Results from the CUORE-0 experiment. Journal of Physics: Conference Series, 2016, 718, 062007.	0.4	1
86	Results on double beta decay of ^{82}Se with CUPID-0 Phase I. AIP Conference Proceedings, 2019, , .	0.4	1
87	CUPID-0: A double-readout cryogenic detector for Double Beta Decay search. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 958, 162441.	1.6	1
88	Final results of the CUPID-0 Phase I experiment. Journal of Physics: Conference Series, 2020, 1468, 012205.	0.4	1
89	First results from the CUORE experiment. Journal of Physics: Conference Series, 2020, 1342, 012002.	0.4	1
90	Assessment of the integrated mass conservative Kalman filter algorithm for Computational Thermo-Fluid Dynamics on the TRIGA Mark II reactor. Nuclear Engineering and Design, 2021, 384, 111431.	1.7	1

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91	Perspectives of lowering CUORE thresholds with Optimum Trigger. Journal of Physics: Conference Series, 2020, 1643, 012020.	0.4	1
92	Results on ^{82}Se $2\hat{1}/2\hat{1}^2\hat{1}^2$ with CUPID-0 Phase I. Journal of Physics: Conference Series, 2020, 1643, 012025.	0.4	1
93	Measurements of Neutron Fields in a Wide Energy Range Using Multi-Foil Activation Analysis. IEEE Transactions on Nuclear Science, 2022, 69, 1659-1666.	2.0	1
94	Searching for New Physics in two-neutrino double beta decay with CUPID. Journal of Physics: Conference Series, 2021, 2156, 012233.	0.4	1
95	Search for neutrinoless ^{120}Te EC decay of ^{120}Te with CUORE. Physical Review C, 2022, 105, .	2.9	1
96	Expected sensitivity to ^{128}Te neutrinoless double beta decay with the CUORE TeO ₂ cryogenic bolometers. Journal of Low Temperature Physics, 2022, 209, 788-795.	1.4	1
97	Study of a Low-power, Fast-neutron-based ADS. Physics Procedia, 2014, 60, 54-60.	1.2	0
98	An intrinsically safe facility for forefront research and training on nuclear technologies â€” A zero-power experiment. European Physical Journal Plus, 2014, 129, 1.	2.6	0
99	CUORE-0 results and prospects for the CUORE experiment. AIP Conference Proceedings, 2015, , .	0.4	0
100	Lowering the CUORE energy threshold. Journal of Physics: Conference Series, 2017, 888, 012047.	0.4	0
101	Results from CUORE and CUORE-0. AIP Conference Proceedings, 2017, , .	0.4	0
102	The CUORE and CUORE-0 experiments at LNGS. EPJ Web of Conferences, 2017, 164, 07047.	0.3	0
103	Setting-up a control-oriented model for simulation of TRIGA Mark II dynamic response. Nuclear Engineering and Design, 2018, 331, 103-115.	1.7	0
104	The CUORE and CUORE-0 experiments at LNGS. Journal of Physics: Conference Series, 2018, 1056, 012009.	0.4	0
105	Results from the CUORE experiment. Journal of Physics: Conference Series, 2019, 1137, 012052.	0.4	0
106	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
107	Measuring the coherent elastic neutrino-nucleus scattering with an high intensity ^{51}Cr radioactive source. Journal of Physics: Conference Series, 2020, 1468, 012209.	0.4	0
108	Initial performance of the CUORE detector. Journal of Physics: Conference Series, 2020, 1342, 012114.	0.4	0

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109	Double beta decay results from the CUPID-0 experiment. , 2021, , .		0
110	FPGA Implementation of an NCO Based CDR for the JUNO Front-End Electronics. IEEE Transactions on Nuclear Science, 2021, 68, 1952-1960.	2.0	0
111	Neutrinoless double beta decay results from CUORE-0 and status of the CUORE experiment. , 2016, , .		0
112	The Cryogenic Underground Observatory for Rare Events: Status and Prospects. , 2017, , .		0
113	The CUORE Bolometric Detector for Neutrinoless Double Beta Decay Searches. Springer Proceedings in Physics, 2018, , 202-207.	0.2	0
114	CUORE: first results and prospects. , 2018, , .		0
115	The commissioning of the CUORE experiment: the mini-tower run. , 2018, , .		0
116	Status and results from the CUORE experiment. International Journal of Modern Physics A, 2020, 35, 2044016.	1.5	0
117	High precision measurement of the half-life of the 391.6 keV metastable level in ^{239}Pu . Physical Review C, 2022, 105, 024307.	2.9	0
118	New results from the CUORE experiment. International Journal of Modern Physics A, 0, , .	1.5	0
119	Optimization of a single module of CUPID. Journal of Physics: Conference Series, 2021, 2156, 012228.	0.4	0