

Matteo Cadeddu

List of Publications by Year in descending order

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papers

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citations

471509

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43
all docs

43
docs citations

43
times ranked

2567
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-Mass Dark Matter Search with the DarkSide-50 Experiment. Physical Review Letters, 2018, 121, 081307.	7.8	259
2	DarkSide-20k: A 20 tonne two-phase LAr TPC for direct dark matter detection at LNGS. European Physical Journal Plus, 2018, 133, 1.	2.6	247
3	Constraints on Sub-GeV Dark-Matter "Electron Scattering from the DarkSide-50 Experiment. Physical Review Letters, 2018, 121, 111303.	7.8	179
4	DarkSide-50 532-day dark matter search with low-radioactivity argon. Physical Review D, 2018, 98, .	4.7	147
5	Results from the first use of low radioactivity argon in a dark matter search. Physical Review D, 2016, 93, .	4.7	108
6	Average CsI Neutron Density Distribution from COHERENT Data. Physical Review Letters, 2018, 120, 072501.	7.8	84
7	Neutrino charge radii from COHERENT elastic neutrino-nucleus scattering. Physical Review D, 2018, 98, .	4.7	63
8	Constraints on light vector mediators through coherent elastic neutrino nucleus scattering data from COHERENT. Journal of High Energy Physics, 2021, 2021, 1.	4.7	43
9	Reinterpreting the weak mixing angle from atomic parity violation in view of the Cs neutron rms radius measurement from COHERENT. Physical Review D, 2019, 99, .	4.7	37
10	Physics results from the first COHERENT observation of coherent elastic neutrino-nucleus scattering in argon and their combination with cesium-iodide data. Physical Review D, 2020, 102, .	4.7	36
11	The veto system of the DarkSide-50 experiment. Journal of Instrumentation, 2016, 11, P03016-P03016.	1.2	33
12	Simulation of argon response and light detection in the DarkSide-50 dual phase TPC. Journal of Instrumentation, 2017, 12, P10015-P10015.	1.2	31
13	Neutrino, electroweak, and nuclear physics from COHERENT elastic neutrino-nucleus scattering with refined quenching factor. Physical Review D, 2020, 101, .	4.7	31
14	Muon and electron $\langle \mathbf{g} \rangle$ and proton and cesium weak charges implications on dark $\langle \mathbf{Z} \rangle$ model	4.7	29
15	First Direct Detection Constraints on Planck-Scale Mass Dark Matter with Multiple-Scatter Signatures Using the DEAP-3600 Detector. Physical Review Letters, 2022, 128, 011801.	7.8	22
16	Probing light mediators and $(g \hat{\nu}^2)^{1/4}$ through detection of coherent elastic neutrino nucleus scattering at COHERENT. Journal of High Energy Physics, 2022, 2022, .	4.7	20
17	Design and construction of a new detector to measure ultra-low radioactive-isotope contamination of argon. Journal of Instrumentation, 2020, 15, P02024-P02024.	1.2	19
18	SiPM-matrix readout of two-phase argon detectors using electroluminescence in the visible and near infrared range. European Physical Journal C, 2021, 81, 1.	3.9	18

#	ARTICLE	IF	CITATIONS
19	New insights into nuclear physics and weak mixing angle using electroweak probes. Physical Review C, 2021, 104, .	2.9	17
20	Cryogenic Characterization of FBK RGB-HD SiPMs. Journal of Instrumentation, 2017, 12, P09030-P09030.	1.2	16
21	Potentialities of a low-energy detector based on ^4He evaporation to observe atomic effects in coherent neutrino scattering and physics perspectives. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 904, 23-34.	4.7	16
22	Electroluminescence pulse shape and electron diffusion in liquid argon measured in a dual-phase TPC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 904, 23-34.	1.6	13
23	Sensitivity of future liquid argon dark matter search experiments to core-collapse supernova neutrinos. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 043.	5.4	12
24	The electronics, trigger and data acquisition system for the liquid argon time projection chamber of the DarkSide-50 search for dark matter. Journal of Instrumentation, 2017, 12, P12011-P12011.	1.2	10
25	CALIS: A CALibration Insertion System for the DarkSide-50 dark matter search experiment. Journal of Instrumentation, 2017, 12, T12004-T12004.	1.2	10
26	Directional modulation of electron-ion pairs recombination in liquid argon. Journal of Instrumentation, 2017, 12, P12002-P12002.	1.2	9
27	Directional dark matter detection sensitivity of a two-phase liquid argon detector. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 014-014.	5.4	8
28	Calibration of the liquid argon ionization response to low energy electronic and nuclear recoils with DarkSide-50. Physical Review D, 2021, 104, .	4.7	8
29	Incorporating the weak mixing angle dependence to reconcile the neutron skin measurement on ^{208}Pb by PREX-II. Physical Review C, 2022, 105, .	4.7	8
30	The electronics and data acquisition system for the DarkSide-50 veto detectors. Journal of Instrumentation, 2016, 11, P12007-P12007.	1.2	7
31	The DarkSide Experiment: Present Status and Future. Journal of Physics: Conference Series, 2017, 798, 012109.	0.4	7
32	Effective field theory interactions for liquid argon target in DarkSide-50 experiment. Physical Review D, 2020, 101, .	4.7	6
33	Performance of the ReD TPC, a novel double-phase LAr detector with silicon photomultiplier readout. European Physical Journal C, 2021, 81, 1.	3.9	6
34	Effect of low electric fields on alpha scintillation light yield in liquid argon. Journal of Instrumentation, 2017, 12, P01021-P01021.	1.2	5
35	The DarkSide awakens. Journal of Physics: Conference Series, 2016, 718, 042016.	0.4	4
36	A directional Dark Matter argon detector at LNGS. Journal of Physics: Conference Series, 2016, 689, 012015.	0.4	3

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37	A study of events with photoelectric emission in the DarkSide-50 liquid argon Time Projection Chamber. <i>Astroparticle Physics</i> , 2022, 140, 102704.	4.3	3
38	Measurement of the ion fraction and mobility of ^{218}Po produced in ^{222}Rn decays in liquid argon. <i>Journal of Instrumentation</i> , 2019, 14, P11018-P11018.	1.2	2
39	Impact of neutrino background prediction for next generation dark matter xenon detector. <i>Journal of Physics: Conference Series</i> , 2018, 956, 012014.	0.4	1
40	The DarkSide-50 outer detectors. <i>Journal of Physics: Conference Series</i> , 2016, 718, 042062.	0.4	0
41	Recoil Directionality Studies in Two-Phase Liquid Argon TPC Detectors. <i>EPJ Web of Conferences</i> , 2017, 164, 07036.	0.3	0
42	Recoil Directionality Experiment. <i>EPJ Web of Conferences</i> , 2019, 209, 01031.	0.3	0
43	THE DARKSIDE-50 EXPERIMENT: A LIQUID ARGON TARGET FOR DARK MATTER PARTICLES. , 2017, , 355-360.		0