

Nicola Canci

List of Publications by Year in descending order

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59
papers

2,031
citations

331670

21
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233421

45
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all docs

60
docs citations

60
times ranked

2934
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	SiPM-matrix readout of two-phase argon detectors using electroluminescence in the visible and near infrared range. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	18
3	Calibration of the liquid argon ionization response to low energy electronic and nuclear recoils with DarkSide-50. <i>Physical Review D</i> , 2021, 104, .	4.7	8
4	Direct comparison of PEN and TPB wavelength shifters in a liquid argon detector. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	8
5	Performance of the ReD TPC, a novel double-phase LAr detector with silicon photomultiplier readout. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	6
6	Long term operation with the DarkSide-50 detector. <i>Journal of Instrumentation</i> , 2020, 15, C03026-C03026.	1.2	1
7	Effective field theory interactions for liquid argon target in DarkSide-50 experiment. <i>Physical Review D</i> , 2020, 101, .	4.7	6
8	Design and construction of a new detector to measure ultra-low radioactive-isotope contamination of argon. <i>Journal of Instrumentation</i> , 2020, 15, P02024-P02024.	1.2	19
9	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
10	DarkSide-50 532-day dark matter search with low-radioactivity argon. <i>Physical Review D</i> , 2018, 98, .	4.7	147
11	Constraints on Sub-GeV Dark-Matterâ€“Electron Scattering from the DarkSide-50 Experiment. <i>Physical Review Letters</i> , 2018, 121, 111303.	7.8	179
12	DarkSide-20k: A 20 tonne two-phase LAr TPC for direct dark matter detection at LNGS. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	247
13	Low-Mass Dark Matter Search with the DarkSide-50 Experiment. <i>Physical Review Letters</i> , 2018, 121, 081307.	7.8	259
14	Electroluminescence pulse shape and electron diffusion in liquid argon measured in a dual-phase TPC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 904, 23-34.	1.6	13
15	The DarkSide Experiment: Present Status and Future. <i>Journal of Physics: Conference Series</i> , 2017, 798, 012109.	0.4	7
16	Effect of low electric fields on alpha scintillation light yield in liquid argon. <i>Journal of Instrumentation</i> , 2017, 12, P01021-P01021.	1.2	5
17	Simulation of argon response and light detection in the DarkSide-50 dual phase TPC. <i>Journal of Instrumentation</i> , 2017, 12, P10015-P10015.	1.2	31
18	The DarkSide direct dark matter search with liquid argon. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0

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19	The electronics, trigger and data acquisition system for the liquid argon time projection chamber of the DarkSide-50 search for dark matter. <i>Journal of Instrumentation</i> , 2017, 12, P12011-P12011.	1.2	10
20	CALIS – A CALibration Insertion System for the DarkSide-50 dark matter search experiment. <i>Journal of Instrumentation</i> , 2017, 12, T12004-T12004.	1.2	10
21	Cryogenic Characterization of FBK RGB-HD SiPMs. <i>Journal of Instrumentation</i> , 2017, 12, P09030-P09030.	1.2	16
22	The DarkSide Program. <i>EPJ Web of Conferences</i> , 2016, 121, 06010.	0.3	0
23	The DarkSide-50 outer detectors. <i>Journal of Physics: Conference Series</i> , 2016, 718, 042062.	0.4	0
24	Solar neutrino detection in a large volume double-phase liquid argon experiment. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 017-017.	5.4	23
25	The electronics and data acquisition system for the DarkSide-50 veto detectors. <i>Journal of Instrumentation</i> , 2016, 11, P12007-P12007.	1.2	7
26	The veto system of the DarkSide-50 experiment. <i>Journal of Instrumentation</i> , 2016, 11, P03016-P03016.	1.2	33
27	The DarkSide project. <i>Journal of Instrumentation</i> , 2016, 11, C02051-C02051.	1.2	3
28	A first walk on the DarkSide. <i>Nuclear and Particle Physics Proceedings</i> , 2016, 273-275, 452-458.	0.5	0
29	Results from the first use of low radioactivity argon in a dark matter search. <i>Physical Review D</i> , 2016, 93, .	4.7	108
30	The DarkSide awakens. <i>Journal of Physics: Conference Series</i> , 2016, 718, 042016.	0.4	4
31	Operation and performance of the ICARUS T600 cryogenic plant at Gran Sasso underground Laboratory. <i>Journal of Instrumentation</i> , 2015, 10, P12004-P12004.	1.2	16
32	The DarkSide Multiton Detector for the Direct Dark Matter Search. <i>Advances in High Energy Physics</i> , 2015, 2015, 1-8.	1.1	21
33	DarkSide-50: A WIMP Search with a Two-phase Argon TPC. <i>Physics Procedia</i> , 2015, 61, 124-129.	1.2	10
34	Direct Search for Dark Matter with DarkSide. <i>Journal of Physics: Conference Series</i> , 2015, 650, 012006.	0.4	9
35	First results from the DarkSide-50 dark matter experiment at Laboratori Nazionali del Gran Sasso. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 743, 456-466.	4.1	186
36	Search for anomalies in the $\hat{1}/2$ e appearance from a $\hat{1}/2$ $\hat{1}/4$ beam. <i>European Physical Journal C</i> , 2013, 73, 1.	3.9	61

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37	Experimental search for the $\bar{\nu}_e$ -LSND anomaly with the ICARUS detector in the CNGS neutrino beam. <i>European Physical Journal C</i> , 2013, 73, 1.	3.9	59
38	Precise 3D Track Reconstruction Algorithm for the ICARUS T600 Liquid Argon Time Projection Chamber Detector. <i>Advances in High Energy Physics</i> , 2013, 2013, 1-16.	1.1	28
39	Tetraphenyl-butadiene films: VUV-Vis optical characterization from room to liquid argon temperature. <i>Journal of Instrumentation</i> , 2013, 8, C09010-C09010.	1.2	7
40	Liquid argon scintillation read-out with silicon devices. <i>Journal of Instrumentation</i> , 2013, 8, C10007-C10007.	1.2	2
41	VUV-Vis optical characterization of Tetraphenyl-butadiene films on glass and specular reflector substrates from room to liquid Argon temperature. <i>Journal of Instrumentation</i> , 2013, 8, P09006-P09006.	1.2	29
42	Aging studies on thin tetra-phenyl butadiene films. <i>Journal of Instrumentation</i> , 2013, 8, C10002-C10002.	1.2	5
43	Tests of PMT signal read-out of liquid argon scintillation with a new fast waveform digitizer. <i>Journal of Instrumentation</i> , 2012, 7, P07003-P07003.	1.2	4
44	Demonstration and comparison of photomultiplier tubes at liquid Argon temperature. <i>Journal of Instrumentation</i> , 2012, 7, P01016-P01016.	1.2	15
45	Precision measurement of the neutrino velocity with the ICARUS detector in the CNGS beam. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	31
46	Test and Comparison of Photomultiplier Tubes at Liquid Argon Temperature. <i>Physics Procedia</i> , 2012, 37, 1087-1094.	1.2	0
47	The ICARUS T600 Detector at LNGS Underground Laboratory. <i>Physics Procedia</i> , 2012, 37, 1257-1265.	1.2	0
48	Neutron to Gamma Pulse Shape Discrimination in Liquid Argon Detectors with High Quantum Efficiency Photomultiplier Tubes. <i>Physics Procedia</i> , 2012, 37, 1113-1121.	1.2	4
49	First Tests of a New Fast Waveform Digitizer for PMT Signal Read-out from Liquid Argon Dark Matter Detectors. <i>Physics Procedia</i> , 2012, 37, 1131-1138.	1.2	2
50	A search for the analogue to Cherenkov radiation by high energy neutrinos at superluminal speeds in ICARUS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 711, 270-275.	4.1	22
51	Measurement of the neutrino velocity with the ICARUS detector at the CNGS beam. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 713, 17-22.	4.1	44
52	The WArP Experiment. <i>Journal of Physics: Conference Series</i> , 2011, 308, 012005.	0.4	9
53	Underground operation of the ICARUS T600 LAr-TPC: first results. <i>Journal of Instrumentation</i> , 2011, 6, P07011-P07011.	1.2	95
54	Oxygen contamination in liquid Argon: combined effects on ionization electron charge and scintillation light. <i>Journal of Instrumentation</i> , 2010, 5, P05003-P05003.	1.2	44

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55	The WArP experiment. Journal of Physics: Conference Series, 2010, 203, 012006.	0.4	20
56	Effects of Nitrogen contamination in liquid Argon. Journal of Instrumentation, 2010, 5, P06003-P06003.	1.2	53
57	Effects of Nitrogen and Oxygen contaminations in liquid Argon. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 607, 169-172.	1.6	11
58	Effects of Nitrogen and Oxygen contamination in liquid Argon. Nuclear Physics, Section B, Proceedings Supplements, 2009, 197, 70-73.	0.4	24
59	Discovery of underground argon with low level of radioactive ^{39}Ar and possible applications to WIMP dark matter detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 587, 46-51.	1.6	44