

Nicola Canci

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4692451/publications.pdf>

Version: 2024-02-01

59
papers

2,031
citations

331670

21
h-index

233421

45
g-index

60
all docs

60
docs citations

60
times ranked

2934
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	First results from the DarkSide-50 dark matter experiment at Laboratori Nazionali del Gran Sasso. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 456-466.	4.1	186
4	Constraints on Sub-GeV Dark-Matterâ€™Electron Scattering from the DarkSide-50 Experiment. Physical Review Letters, 2018, 121, 111303.	7.8	179
5	DarkSide-50 532-day dark matter search with low-radioactivity argon. Physical Review D, 2018, 98, .	4.7	147
6	Results from the first use of low radioactivity argon in a dark matter search. Physical Review D, 2016, 93, .	4.7	108
7	Underground operation of the ICARUS T600 LAr-TPC: first results. Journal of Instrumentation, 2011, 6, P07011-P07011.	1.2	95
8	Search for anomalies in the $\hat{1}/2$ e appearance from a $\hat{1}/2$ $\hat{1}/4$ beam. European Physical Journal C, 2013, 73, 1.	3.9	61
9	Experimental search for the \hat{a} LSND anomalyâ€™with the ICARUS detector in the CNGS neutrino beam. European Physical Journal C, 2013, 73, 1.	3.9	59
10	Effects of Nitrogen contamination in liquid Argon. Journal of Instrumentation, 2010, 5, P06003-P06003.	1.2	53
11	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
12	Oxygen contamination in liquid Argon: combined effects on ionization electron charge and scintillation light. Journal of Instrumentation, 2010, 5, P05003-P05003.	1.2	44
13	Measurement of the neutrino velocity with the ICARUS detector at the CNGS beam. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 17-22.	4.1	44
14	The veto system of the DarkSide-50 experiment. Journal of Instrumentation, 2016, 11, P03016-P03016.	1.2	33
15	Precision measurement of the neutrino velocity with the ICARUS detector in the CNGS beam. Journal of High Energy Physics, 2012, 2012, 1.	4.7	31
16	Simulation of argon response and light detection in the DarkSide-50 dual phase TPC. Journal of Instrumentation, 2017, 12, P10015-P10015.	1.2	31
17	VUV-Vis optical characterization of Tetraphenyl-butadiene films on glass and specular reflector substrates from room to liquid Argon temperature. Journal of Instrumentation, 2013, 8, P09006-P09006.	1.2	29
18	Precise 3D Track Reconstruction Algorithm for the ICARUS T600 Liquid Argon Time Projection Chamber Detector. Advances in High Energy Physics, 2013, 2013, 1-16.	1.1	28

#	ARTICLE	IF	CITATIONS
19	Effects of Nitrogen and Oxygen contamination in liquid Argon. Nuclear Physics, Section B, Proceedings Supplements, 2009, 197, 70-73.	0.4	24
20	Solar neutrino detection in a large volume double-phase liquid argon experiment. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 017-017.	5.4	23
21	A search for the analogue to Cherenkov radiation by high energy neutrinos at superluminal speeds in ICARUS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 711, 270-275.	4.1	22
22	The DarkSide Multiton Detector for the Direct Dark Matter Search. Advances in High Energy Physics, 2015, 2015, 1-8.	1.1	21
23	The WArP experiment. Journal of Physics: Conference Series, 2010, 203, 012006.	0.4	20
24	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
25	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
26	Operation and performance of the ICARUS T600 cryogenic plant at Gran Sasso underground Laboratory. Journal of Instrumentation, 2015, 10, P12004-P12004.	1.2	16
27	Cryogenic Characterization of FBK RGB-HD SiPMs. Journal of Instrumentation, 2017, 12, P09030-P09030.	1.2	16
28	Demonstration and comparison of photomultiplier tubes at liquid Argon temperature. Journal of Instrumentation, 2012, 7, P01016-P01016.	1.2	15
29	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
30	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
31	DarkSide-50: A WIMP Search with a Two-phase Argon TPC. Physics Procedia, 2015, 61, 124-129.	1.2	10
32	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
33	CALIS – A CALibration Insertion System for the DarkSide-50 dark matter search experiment. Journal of Instrumentation, 2017, 12, T12004-T12004.	1.2	10
34	The WArP Experiment. Journal of Physics: Conference Series, 2011, 308, 012005.	0.4	9
35	Direct Search for Dark Matter with DarkSide. Journal of Physics: Conference Series, 2015, 650, 012006.	0.4	9
36	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

#	ARTICLE	IF	CITATIONS
37	Direct comparison of PEN and TPB wavelength shifters in a liquid argon detector. European Physical Journal C, 2021, 81, 1.	3.9	8
38	Tetraphenyl-butadiene films: VUV-Vis optical characterization from room to liquid argon temperature. Journal of Instrumentation, 2013, 8, C09010-C09010.	1.2	7
39	The electronics and data acquisition system for the DarkSide-50 veto detectors. Journal of Instrumentation, 2016, 11, P12007-P12007.	1.2	7
40	The DarkSide Experiment: Present Status and Future. Journal of Physics: Conference Series, 2017, 798, 012109.	0.4	7
41	Effective field theory interactions for liquid argon target in DarkSide-50 experiment. Physical Review D, 2020, 101, .	4.7	6
42	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
43	Aging studies on thin tetra-phenyl butadiene films. Journal of Instrumentation, 2013, 8, C10002-C10002.	1.2	5
44	Effect of low electric fields on alpha scintillation light yield in liquid argon. Journal of Instrumentation, 2017, 12, P01021-P01021.	1.2	5
45	Tests of PMT signal read-out of liquid argon scintillation with a new fast waveform digitizer. Journal of Instrumentation, 2012, 7, P07003-P07003.	1.2	4
46	Neutron to Gamma Pulse Shape Discrimination in Liquid Argon Detectors with High Quantum Efficiency Photomultiplier Tubes. Physics Procedia, 2012, 37, 1113-1121.	1.2	4
47	The DarkSide awakens. Journal of Physics: Conference Series, 2016, 718, 042016.	0.4	4
48	The DarkSide project. Journal of Instrumentation, 2016, 11, C02051-C02051.	1.2	3
49	A study of events with photoelectric emission in the DarkSide-50 liquid argon Time Projection Chamber. Astroparticle Physics, 2022, 140, 102704.	4.3	3
50	First Tests of a New Fast Waveform Digitizer for PMT Signal Read-out from Liquid Argon Dark Matter Detectors. Physics Procedia, 2012, 37, 1131-1138.	1.2	2
51	Liquid argon scintillation read-out with silicon devices. Journal of Instrumentation, 2013, 8, C10007-C10007.	1.2	2
52	Measurement of the ion fraction and mobility of ^{218}Po produced in ^{222}Rn decays in liquid argon. Journal of Instrumentation, 2019, 14, P11018-P11018.	1.2	2
53	Long term operation with the DarkSide-50 detector. Journal of Instrumentation, 2020, 15, C03026-C03026.	1.2	1
54	Test and Comparison of Photomultiplier Tubes at Liquid Argon Temperature. Physics Procedia, 2012, 37, 1087-1094.	1.2	0

#	ARTICLE	IF	CITATIONS
55	The ICARUS T600 Detector at LNGS Underground Laboratory. Physics Procedia, 2012, 37, 1257-1265.	1.2	0
56	The DarkSide Program. EPJ Web of Conferences, 2016, 121, 06010.	0.3	0
57	The DarkSide-50 outer detectors. Journal of Physics: Conference Series, 2016, 718, 042062.	0.4	0
58	A first walk on the DarkSide. Nuclear and Particle Physics Proceedings, 2016, 273-275, 452-458.	0.5	0
59	The DarkSide direct dark matter search with liquid argon. AIP Conference Proceedings, 2017, , .	0.4	0