

Bianca Bottino

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,180
citations

759233

12
h-index

610901

24
g-index

31
all docs

31
docs citations

31
times ranked

2455
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-Mass Dark Matter Search with the DarkSide-50 Experiment. <i>Physical Review Letters</i> , 2018, 121, 081307.	7.8	259
2	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
3	Constraints on Sub-GeV Dark-Matterâ€“Electron Scattering from the DarkSide-50 Experiment. <i>Physical Review Letters</i> , 2018, 121, 111303.	7.8	179
4	DarkSide-50 532-day dark matter search with low-radioactivity argon. <i>Physical Review D</i> , 2018, 98, .	4.7	147
5	Results from the first use of low radioactivity argon in a dark matter search. <i>Physical Review D</i> , 2016, 93, .	4.7	108
6	The veto system of the DarkSide-50 experiment. <i>Journal of Instrumentation</i> , 2016, 11, P03016-P03016.	1.2	33
7	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
8	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
9	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
10	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
11	Cryogenic Characterization of FBK RGB-HD SiPMs. <i>Journal of Instrumentation</i> , 2017, 12, P09030-P09030.	1.2	16
12	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
13	Sensitivity of future liquid argon dark matter search experiments to core-collapse supernova neutrinos. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 043.	5.4	12
14	Separating ^{39}Ar from ^{40}Ar by cryogenic distillation with Aria for dark-matter searches. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	12
15	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
16	CALISâ€“A CALibration Insertion System for the DarkSide-50 dark matter search experiment. <i>Journal of Instrumentation</i> , 2017, 12, T12004-T12004.	1.2	10
17	Directional dark matter detection sensitivity of a two-phase liquid argon detector. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 014-014.	5.4	8
18	The electronics and data acquisition system for the DarkSide-50 veto detectors. <i>Journal of Instrumentation</i> , 2016, 11, P12007-P12007.	1.2	7

#	ARTICLE	IF	CITATIONS
19	The DarkSide Experiment: Present Status and Future. Journal of Physics: Conference Series, 2017, 798, 012109.	0.4	7
20	Effective field theory interactions for liquid argon target in DarkSide-50 experiment. Physical Review D, 2020, 101, .	4.7	6
21	Effect of low electric fields on alpha scintillation light yield in liquid argon. Journal of Instrumentation, 2017, 12, P01021-P01021.	1.2	5
22	The DarkSide awakens. Journal of Physics: Conference Series, 2016, 718, 042016.	0.4	4
23	The DarkSide project. Journal of Instrumentation, 2016, 11, C02051-C02051.	1.2	3
24	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
25	The DarkSide-50 outer detectors. Journal of Physics: Conference Series, 2016, 718, 042062.	0.4	0
26	Recoil Directionality Studies in Two-Phase Liquid Argon TPC Detectors. EPJ Web of Conferences, 2017, 164, 07036.	0.3	0
27	Front-end electronic system for large area photomultipliers readout. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 936, 325-326.	1.6	0
28	DarkSide-50: status of the detector and results. , 2017, , .		0
29	Dark Side. , 2017, , .		0
30	THE DARKSIDE-50 EXPERIMENT: A LIQUID ARGON TARGET FOR DARK MATTER PARTICLES. , 2017, , 355-360.		0