

# Bianca Bottino

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3840462/publications.pdf>

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	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
2	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
3	Separating $^{39}\text{Ar}$ from $^{40}\text{Ar}$ by cryogenic distillation with Aria for dark-matter searches. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	12
4	Effective field theory interactions for liquid argon target in DarkSide-50 experiment. <i>Physical Review D</i> , 2020, 101, .	4.7	6
5	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
6	Front-end electronic system for large area photomultipliers readout. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019, 936, 325-326.	1.6	0
7	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
8	Measurement of the ion fraction and mobility of $^{218}\text{Po}$ produced in $^{222}\text{Rn}$ decays in liquid argon. <i>Journal of Instrumentation</i> , 2019, 14, P11018-P11018.	1.2	2
9	DarkSide-50 532-day dark matter search with low-radioactivity argon. <i>Physical Review D</i> , 2018, 98, .	4.7	147
10	Constraints on Sub-GeV Dark-Matter "Electron Scattering from the DarkSide-50 Experiment. <i>Physical Review Letters</i> , 2018, 121, 111303.	7.8	179
11	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
12	Low-Mass Dark Matter Search with the DarkSide-50 Experiment. <i>Physical Review Letters</i> , 2018, 121, 081307.	7.8	259
13	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
14	The DarkSide Experiment: Present Status and Future. <i>Journal of Physics: Conference Series</i> , 2017, 798, 012109.	0.4	7
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Recoil Directionality Studies in Two-Phase Liquid Argon TPC Detectors. EPJ Web of Conferences, 2017, 164, 07036.	0.3	0
20	Cryogenic Characterization of FBK RGB-HD SiPMs. Journal of Instrumentation, 2017, 12, P09030-P09030.	1.2	16
21	DarkSide-50: status of the detector and results. , 2017, , .		0
22	Dark Side. , 2017, , .		0
23	THE DARKSIDE-50 EXPERIMENT: A LIQUID ARGON TARGET FOR DARK MATTER PARTICLES. , 2017, , 355-360.		0
24	The DarkSide-50 outer detectors. Journal of Physics: Conference Series, 2016, 718, 042062.	0.4	0
25	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
26	The electronics and data acquisition system for the DarkSide-50 veto detectors. Journal of Instrumentation, 2016, 11, P12007-P12007.	1.2	7
27	The veto system of the DarkSide-50 experiment. Journal of Instrumentation, 2016, 11, P03016-P03016.	1.2	33
28	The DarkSide project. Journal of Instrumentation, 2016, 11, C02051-C02051.	1.2	3
29	Results from the first use of low radioactivity argon in a dark matter search. Physical Review D, 2016, 93, .	4.7	108
30	The DarkSide awakens. Journal of Physics: Conference Series, 2016, 718, 042016.	0.4	4