

# Shawn Westerdale

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

1,916  
citations

331670

21  
h-index

243625

44  
g-index

49  
all docs

49  
docs citations

49  
times ranked

2790  
citing authors

#	ARTICLE	IF	CITATIONS
1	First Direct Detection Constraints on Planck-Scale Mass Dark Matter with Multiple-Scatter Signatures Using the DEAP-3600 Detector. <i>Physical Review Letters</i> , 2022, 128, 011801.	7.8	22
2	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
3	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
4	The novel Mechanical Ventilator Milano for the COVID-19 pandemic. <i>Physics of Fluids</i> , 2021, 33, 037122.	4.0	29
5	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
6	Pulse-shape discrimination against low-energy Ar-39 beta decays in liquid argon with 4.5 tonne-years of DEAP-3600 data. <i>European Physical Journal C</i> , 2021, 81, 823.	3.9	12
7	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
8	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
9	Constraints on dark matter-nucleon effective couplings in the presence of kinematically distinct halo substructures using the DEAP-3600 detector. <i>Physical Review D</i> , 2020, 102, .	4.7	21
10	The liquid-argon scintillation pulseshape in DEAP-3600. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	14
11	Effective field theory interactions for liquid argon target in DarkSide-50 experiment. <i>Physical Review D</i> , 2020, 101, .	4.7	6
12	Search for dark matter with a 231-day exposure of liquid argon using DEAP-3600 at SNOLAB. <i>Physical Review D</i> , 2019, 100, .	4.7	94
13	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
14	Design and construction of the DEAP-3600 dark matter detector. <i>Astroparticle Physics</i> , 2019, 108, 1-23.	4.3	62
15	A new tool for $(\hat{I} \pm n)$ yield calculations and its implications for DEAP-3600. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	1
16	DarkSide-50 532-day dark matter search with low-radioactivity argon. <i>Physical Review D</i> , 2018, 98, .	4.7	147
17	Constraints on Sub-GeV Dark-Matterâ€“Electron Scattering from the DarkSide-50 Experiment. <i>Physical Review Letters</i> , 2018, 121, 111303.	7.8	179
18	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

#	ARTICLE	IF	CITATIONS
19	First Results from the DEAP-3600 Dark Matter Search with Argon at SNOLAB. <i>Physical Review Letters</i> , 2018, 121, 071801.	7.8	52
20	Low-Mass Dark Matter Search with the DarkSide-50 Experiment. <i>Physical Review Letters</i> , 2018, 121, 081307.	7.8	259
21	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
22	The DarkSide Experiment: Present Status and Future. <i>Journal of Physics: Conference Series</i> , 2017, 798, 012109.	0.4	7
23	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
24	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
25	Quenching measurements and modeling of a boron-loaded organic liquid scintillator. <i>Journal of Instrumentation</i> , 2017, 12, P08002-P08002.	1.2	6
26	Radiogenic neutron yield calculations for low-background experiments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 875, 57-64.	1.6	36
27	First measurement of surface nuclear recoil background for argon dark matter searches. <i>Physical Review D</i> , 2017, 96, .	4.7	6
28	The DarkSide direct dark matter search with liquid argon. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0
29	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
30	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
31	THE DARKSIDE-50 EXPERIMENT: A LIQUID ARGON TARGET FOR DARK MATTER PARTICLES. , 2017, , 355-360.		0
32	The DarkSide Program. <i>EPJ Web of Conferences</i> , 2016, 121, 06010.	0.3	0
33	The DarkSide-50 outer detectors. <i>Journal of Physics: Conference Series</i> , 2016, 718, 042062.	0.4	0
34	The electronics and data acquisition system for the DarkSide-50 veto detectors. <i>Journal of Instrumentation</i> , 2016, 11, P12007-P12007.	1.2	7
35	The veto system of the DarkSide-50 experiment. <i>Journal of Instrumentation</i> , 2016, 11, P03016-P03016.	1.2	33
36	A first walk on the DarkSide. <i>Nuclear and Particle Physics Proceedings</i> , 2016, 273-275, 452-458.	0.5	0

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37	Results from the first use of low radioactivity argon in a dark matter search. Physical Review D, 2016, 93, .	4.7	108
38	The DarkSide awakens. Journal of Physics: Conference Series, 2016, 718, 042016.	0.4	4
39	A prototype neutron veto for dark matter detectors. Astroparticle Physics, 2016, 79, 10-22.	4.3	5
40	Scintillation efficiency measurement of Na recoils in NaI(Tl) below the DAMA/LIBRA energy threshold. Physical Review C, 2015, 92, .	2.9	34
41	The DarkSide Multiton Detector for the Direct Dark Matter Search. Advances in High Energy Physics, 2015, 2015, 1-8.	1.1	21
42	Measurement of scintillation and ionization yield and scintillation pulse shape from nuclear recoils in liquid argon. Physical Review D, 2015, 91, .	4.7	80
43	Direct Search for Dark Matter with DarkSide. Journal of Physics: Conference Series, 2015, 650, 012006.	0.4	9
44	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
45	Light yield in DarkSide-10: A prototype two-phase argon TPC for dark matter searches. Astroparticle Physics, 2013, 49, 44-51.	4.3	36
46	DarkSide search for dark matter. Journal of Instrumentation, 2013, 8, C11021-C11021.	1.2	36
47	Observation of the dependence on drift field of scintillation from nuclear recoils in liquid argon. Physical Review D, 2013, 88, .	4.7	30
48	A Radon Progeny Deposition Model. AIP Conference Proceedings, 2011, , .	0.4	7