

Maria del Carmen Carmona Benitez

List of Publications by Year in descending order

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49

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4,584

citations

236925

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docs citations

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times ranked

6993

citing authors

#	ARTICLE	IF	CITATIONS
1	Projected sensitivity of the LUX-ZEPLIN experiment to the two-neutrino and neutrinoless double decays of Xe^{134} . Physical Review C, 2021, 104, .	2.9	5
2	Measurement of the gamma ray background in the Davis cavern at the Sanford Underground Research Facility. Astroparticle Physics, 2020, 116, 102391.	4.3	12
3	First direct detection constraint on mirror dark matter kinetic mixing using LUX 2013 data. Physical Review D, 2020, 101, .	4.7	9
4	The LUX-ZEPLIN (LZ) experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 953, 163047.	1.6	105
5	Extending light WIMP searches to single scintillation photons in LUX. Physical Review D, 2020, 101, .	4.7	18
6	The LUX-ZEPLIN (LZ) radioactivity and cleanliness control programs. European Physical Journal C, 2020, 80, 1.	3.9	38
7	Projected WIMP sensitivity of the LUX-ZEPLIN dark matter experiment. Physical Review D, 2020, 101, .	4.7	141
8	Projected sensitivity of the LUX-ZEPLIN experiment to the decay of Xe^{136} . Physical Review C, 2020, 102, .	2.9	23
9	Search for two neutrino double electron capture of ^{124}Xe and ^{126}Xe in the full exposure of the LUX detector. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 105105.	3.6	1
10	Improved measurements of the β^2 -decay response of liquid xenon with the LUX detector. Physical Review D, 2019, 100, .	4.7	11
11	Results of a Search for Sub-GeV Dark Matter Using 2013 LUX Data. Physical Review Letters, 2019, 122, 131301.	7.8	119
12	Chromatographic separation of radioactive noble gases from xenon. Astroparticle Physics, 2018, 97, 80-87.	4.3	20
13	Search for annual and diurnal rate modulations in the LUX experiment. Physical Review D, 2018, 98, .	4.7	34
14	LUX trigger efficiency. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 908, 401-410.	1.6	2
15	Position reconstruction in LUX. Journal of Instrumentation, 2018, 13, P02001-P02001.	1.2	25
16	Liquid xenon scintillation measurements and pulse shape discrimination in the LUX dark matter detector. Physical Review D, 2018, 97, .	4.7	19
17	Calibration, event reconstruction, data analysis, and limit calculation for the LUX dark matter experiment. Physical Review D, 2018, 97, .	4.7	29
18	Results from a Search for Dark Matter in the Complete LUX Exposure. Physical Review Letters, 2017, 118, 021303.	7.8	1,081

#	ARTICLE	IF	CITATIONS
19	Identification of radiopure titanium for the LZ dark matter experiment and future rare event searches. <i>Astroparticle Physics</i> , 2017, 96, 1-10.	4.3	24
20	Signal yields, energy resolution, and recombination fluctuations in liquid xenon. <i>Physical Review D</i> , 2017, 95, .	4.7	39
21	3D modeling of electric fields in the LUX detector. <i>Journal of Instrumentation</i> , 2017, 12, P11022-P11022.	1.2	21
22	First Searches for Axions and Axionlike Particles with the LUX Experiment. <i>Physical Review Letters</i> , 2017, 118, 261301.	7.8	108
23	Limits on Spin-Dependent WIMP-Nucleon Cross Section Obtained from the Complete LUX Exposure. <i>Physical Review Letters</i> , 2017, 118, 251302. Ultralow energy calibration of LUX detector using Xe xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block"> Xe	7.8	175
24	Electron capture. <i>Physical Review D</i> , 2017, 96, . Kr	4.7	36
25	mathvariant="normal"> m calibration of the 2013 LUX dark matter search. <i>Physical Review D</i> , 2017, 96, . 83	4.7	28
26	First Results of the LUX Dark Matter Experiment. <i>Nuclear and Particle Physics Proceedings</i> , 2016, 273-275, 309-313.	0.5	3
27	Tritium calibration of the LUX dark matter experiment. <i>Physical Review D</i> , 2016, 93, .	4.7	70
28	Improved Limits on Scattering of Weakly Interacting Massive Particles from Reanalysis of 2013 LUX Data. <i>Physical Review Letters</i> , 2016, 116, 161301.	7.8	333
29	Results on the Spin-Dependent Scattering of Weakly Interacting Massive Particles on Nucleons from the Run 3 Data of the LUX Experiment. <i>Physical Review Letters</i> , 2016, 116, 161302.	7.8	146
30	FPGA-based trigger system for the LUX dark matter experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 818, 57-67.	1.6	12
31	The LUX Experiment. <i>Physics Procedia</i> , 2015, 61, 74-76.	1.2	0
32	Radon-related Backgrounds in the LUX Dark Matter Search. <i>Physics Procedia</i> , 2015, 61, 658-665.	1.2	9
33	Results from the LUX dark matter experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 784, 504-507.	1.6	8
34	Radiogenic and muon-induced backgrounds in the LUX dark matter detector. <i>Astroparticle Physics</i> , 2015, 62, 33-46.	4.3	71
35	First Results from the LUX Dark Matter Experiment at the Sanford Underground Research Facility. <i>Physical Review Letters</i> , 2014, 112, 091303.	7.8	1,248
36	The Large Underground Xenon (LUX) experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 704, 111-126.	1.6	239

#	ARTICLE		IF	CITATIONS
37	An ultra-low background PMT for liquid xenon detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 703, 1-6.		1.6	36
38	Technical results from the surface run of the LUX dark matter experiment. Astroparticle Physics, 2013, 45, 34-43.		4.3	45
39	Cryogenic Large Liquid Xenon Detector for Dark Matter Searches. Journal of Physics: Conference Series, 2012, 400, 052021.		0.4	0
40	LUX Cryogenics and Circulation. Physics Procedia, 2012, 37, 1122-1130.		1.2	3
41	Data acquisition and readout system for the LUX dark matter experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 668, 1-8.		1.6	22
42	LUXSim: A component-centric approach to low-background simulations. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 675, 63-77.		1.6	31
43	ArDM: a ton-scale LAr detector for direct Dark Matter searches. Journal of Physics: Conference Series, 2011, 308, 012006.		0.4	30
44	First results on light readout from the 1-ton ArDM liquid argon detector for dark matter searches. Journal of Instrumentation, 2010, 5, P11003-P11003.		1.2	20
45	Development of wavelength shifter coated reflectors for the ArDM argon dark matter detector. Journal of Instrumentation, 2009, 4, P06001-P06001.		1.2	30
46	Direct WIMP identification: physics performance of a segmented noble liquid target immersed in a Gd-doped water veto. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 019.		5.4	4
47	Observation of coherent neutrino-nucleus elastic scattering at a beta beam. Physical Review D, 2006, 74, .		4.7	24
48	Characterization of ETL 9357FLA photomultiplier tubes for cryogenic temperature applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 556, 146-157.		1.6	41
49	Measurement of through-going particle momentum by means of multiple scattering with the ICARUS T600 TPC. European Physical Journal C, 2006, 48, 667-676.		3.9	36