

Maria del Carmen Carmona Benitez

List of Publications by Year in descending order

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49
papers

4,584
citations

236925

25
h-index

214800

47
g-index

50
all docs

50
docs citations

50
times ranked

6993
citing authors

#	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.	7.8	175
24	Ultralow energy calibration of LUX detector using $\langle m \rangle$ electron capture. <i>Physical Review D</i> , 2017, 96, .	4.7	36
25	electron capture. <i>Physical Review D</i> , 2017, 96, .	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