

Luiz de Viveiros

List of Publications by Year in descending order

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60
papers

4,774
citations

186265

28
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155660

55
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63
all docs

63
docs citations

63
times ranked

5155
citing authors

#	ARTICLE	IF	CITATIONS
1	Bayesian analysis of a future $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> \langle \text{mml:mi}> \hat{I}^2 \langle / \text{mml:mi} \rangle \langle / \text{mml:math} \rangle$ decay experiment's sensitivity to neutrino mass scale and ordering. Physical Review C, 2021, 103, .	2.9	9
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	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
4	Improved modeling of \hat{I}^2 electronic recoils in liquid xenon using LUX calibration data. Journal of Instrumentation, 2020, 15, T02007-T02007.	1.2	8
5	Electron radiated power in cyclotron radiation emission spectroscopy experiments. Physical Review C, 2019, 99, .	2.9	13
6	Locust: C++ software for simulation of RF detection. New Journal of Physics, 2019, 21, 113051.	2.9	4
7	Proposed low-energy absolute calibration of nuclear recoils in a dual-phase noble element TPC using $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0029.gif" overflow="scroll"> \langle \text{mml:mi mathvariant="normal"> D-D \langle / \text{mml:mi} \rangle \langle / \text{mml:math} \rangle$ neutron scattering kinematics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 851, 68-81.	1.6	15
8	Determining the neutrino mass with cyclotron radiation emission spectroscopyâ€”Project 8. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 054004.	3.6	78
9	Results from the Project 8 phase-1 cyclotron radiation emission spectroscopy detector. Journal of Physics: Conference Series, 2017, 888, 012074.	0.4	0
10	Project 8 Phase III Design Concept. Journal of Physics: Conference Series, 2017, 888, 012230.	0.4	0
11	First Results of the LUX Dark Matter Experiment. Nuclear and Particle Physics Proceedings, 2016, 273-275, 309-313.	0.5	3
12	Tritium calibration of the LUX dark matter experiment. Physical Review D, 2016, 93, .	4.7	70
13	Improved Limits on Scattering of Weakly Interacting Massive Particles from Reanalysis of 2013 LUX Data. Physical Review Letters, 2016, 116, 161301.	7.8	333
14	Results on the Spin-Dependent Scattering of Weakly Interacting Massive Particles on Nucleons from the Run 3 Data of the LUX Experiment. Physical Review Letters, 2016, 116, 161302.	7.8	146
15	Commissioning of the vacuum system of the KATRIN Main Spectrometer. Journal of Instrumentation, 2016, 11, P04011-P04011.	1.2	29
16	FPGA-based trigger system for the LUX dark matter experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 818, 57-67.	1.6	12
17	The LUX Experiment. Physics Procedia, 2015, 61, 74-76.	1.2	0
18	Radon-related Backgrounds in the LUX Dark Matter Search. Physics Procedia, 2015, 61, 658-665.	1.2	9

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19	Single-Electron Detection and Spectroscopy via Relativistic Cyclotron Radiation. <i>Physical Review Letters</i> , 2015, 114, 162501.	7.8	76
20	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
21	Radiogenic and muon-induced backgrounds in the LUX dark matter detector. <i>Astroparticle Physics</i> , 2015, 62, 33-46.	4.3	71
22	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
23	Measurement and simulation of the muon-induced neutron yield in lead. <i>Astroparticle Physics</i> , 2013, 47, 67-76.	4.3	31
24	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
25	An ultra-low background PMT for liquid xenon detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 703, 1-6.	1.6	36
26	The LUX prototype detector: Heat exchanger development. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 709, 29-36.	1.6	7
27	Technical results from the surface run of the LUX dark matter experiment. <i>Astroparticle Physics</i> , 2013, 45, 34-43.	4.3	45
28	A measurement of the muon-induced neutron yield in lead at a depth of 2850 m water equivalent. , 2013, , .		0
29	Cryogenic Large Liquid Xenon Detector for Dark Matter Searches. <i>Journal of Physics: Conference Series</i> , 2012, 400, 052021.	0.4	0
30	Performance data from the ZEPLIN-III second science run. <i>Journal of Instrumentation</i> , 2012, 7, C03044-C03044.	1.2	4
31	Position Reconstruction in a Dual Phase Xenon Scintillation Detector. <i>IEEE Transactions on Nuclear Science</i> , 2012, 59, 3286-3293.	2.0	47
32	LUX Cryogenics and Circulation. <i>Physics Procedia</i> , 2012, 37, 1122-1130.	1.2	3
33	Quenching factor for low-energy nuclear recoils in a plastic scintillator. <i>Physical Review C</i> , 2012, 85, .	2.9	21
34	Radioactivity backgrounds in ZEPLIN-III. <i>Astroparticle Physics</i> , 2012, 35, 495-502.	4.3	25
35	Data acquisition and readout system for the LUX dark matter experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 668, 1-8.	1.6	22
36	LUXSim: A component-centric approach to low-background simulations. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 675, 63-77.	1.6	31

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37	WIMP-nucleon cross-section results from the second science run of ZEPLIN-III. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 709, 14-20.	4.1	124
38	Design and performance of the XENON10 dark matter experiment. Astroparticle Physics, 2011, 34, 679-698.	4.3	95
39	ZE3RA: the ZEPLIN-III Reduction and Analysis package. Journal of Instrumentation, 2011, 6, P11004-P11004.	1.2	11
40	Nuclear recoil scintillation and ionisation yields in liquid xenon from ZEPLIN-III data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 705, 471-476.	4.1	45
41	Single electron emission in two-phase xenon with application to the detection of coherent neutrino-nucleus scattering. Journal of High Energy Physics, 2011, 2011, 1.	4.7	42
42	Performance of the veto detector incorporated into the ZEPLIN-III experiment. Astroparticle Physics, 2011, 35, 76-86.	4.3	19
43	Position reconstruction in a dual phase xenon scintillation detector. , 2011, , .		1
44	Search for Light Dark Matter in XENON10 Data. Physical Review Letters, 2011, 107, 051301.	7.8	386
45	The LUX dark matter search. Journal of Physics: Conference Series, 2010, 203, 012026.	0.4	34
46	Limits on inelastic dark matter from ZEPLIN-III. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 692, 180-183.	4.1	40
47	Status of the LUX Dark Matter Search. , 2010, , .		12
48	The scintillation and ionization yield of liquid xenon for nuclear recoils. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 601, 339-346.	1.6	60
49	Constraints on inelastic dark matter from XENON10. Physical Review D, 2009, 80, .	4.7	93
50	Limits on Spin-Dependent WIMP-Nucleon Cross Sections from the XENON10 Experiment. Physical Review Letters, 2008, 101, 091301.	7.8	164
51	First Results from the XENON10 Dark Matter Experiment at the Gran Sasso National Laboratory. Physical Review Letters, 2008, 100, 021303.	7.8	540
52	3D Position Sensitive XeTPC for Dark Matter Search. Nuclear Physics, Section B, Proceedings Supplements, 2007, 173, 117-120.	0.4	7
53	XENON. Nuclear Physics, Section B, Proceedings Supplements, 2007, 173, 113-116.	0.4	2
54	Simultaneous Measurement of Ionization and Scintillation from Nuclear Recoils in Liquid Xenon for a Dark Matter Experiment. Physical Review Letters, 2006, 97, 081302.	7.8	120

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55	The XENON dark matter search: status of XENON10. Journal of Physics: Conference Series, 2006, 39, 107-110.	0.4	7
56	The XENON dark matter search experiment. New Astronomy Reviews, 2005, 49, 289-295.	12.8	67
57	The XENON dark matter experiment. Nuclear Physics, Section B, Proceedings Supplements, 2005, 138, 156-159.	0.4	24
58	Soudan Low Background Counting Facility (SOLO). AIP Conference Proceedings, 2005, , .	0.4	6
59	Beta Cage: A New, Large-Area Multi-Wire Screening Detector For Surface Beta Contamination. AIP Conference Proceedings, 2005, , .	0.4	5
60	Radio frequency measurements of the superconducting transition in $\hat{p}-(\text{ET})_2\text{Cu}(\text{NCS})_2$ using a tunnel diode oscillator in pulsed magnetic fields. Synthetic Metals, 2001, 120, 723-724.	3.9	3