

# Luiz de Viveiros

## List of Publications by Year in descending order

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60  
papers

4,774  
citations

186265

28  
h-index

155660

55  
g-index

63  
all docs

63  
docs citations

63  
times ranked

5155  
citing authors

#	ARTICLE	IF	CITATIONS
1	First Results from the LUX Dark Matter Experiment at the Sanford Underground Research Facility. Physical Review Letters, 2014, 112, 091303.	7.8	1,248
2	First Results from the XENON10 Dark Matter Experiment at the Gran Sasso National Laboratory. Physical Review Letters, 2008, 100, 021303.	7.8	540
3	Search for Light Dark Matter in XENON10 Data. Physical Review Letters, 2011, 107, 051301.	7.8	386
4	Improved Limits on Scattering of Weakly Interacting Massive Particles from Reanalysis of 2013 LUX Data. Physical Review Letters, 2016, 116, 161301.	7.8	333
5	The Large Underground Xenon (LUX) experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 704, 111-126.	1.6	239
6	Limits on Spin-Dependent WIMP-Nucleon Cross Sections from the XENON10 Experiment. Physical Review Letters, 2008, 101, 091301.	7.8	164
7	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
8	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
9	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
10	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
11	Design and performance of the XENON10 dark matter experiment. Astroparticle Physics, 2011, 34, 679-698.	4.3	95
12	Constraints on inelastic dark matter from XENON10. Physical Review D, 2009, 80, .	4.7	93
13	Determining the neutrino mass with cyclotron radiation emission spectroscopyâ€”Project 8. Journal of Physics C: Nuclear and Particle Physics, 2017, 44, 054004.	3.6	78
14	Single-Electron Detection and Spectroscopy via Relativistic Cyclotron Radiation. Physical Review Letters, 2015, 114, 162501.	7.8	76
15	Radiogenic and muon-induced backgrounds in the LUX dark matter detector. Astroparticle Physics, 2015, 62, 33-46.	4.3	71
16	Tritium calibration of the LUX dark matter experiment. Physical Review D, 2016, 93, .	4.7	70
17	The XENON dark matter search experiment. New Astronomy Reviews, 2005, 49, 289-295.	12.8	67
18	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

#	ARTICLE	IF	CITATIONS
19	Position Reconstruction in a Dual Phase Xenon Scintillation Detector. IEEE Transactions on Nuclear Science, 2012, 59, 3286-3293.	2.0	47
20	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
21	Technical results from the surface run of the LUX dark matter experiment. Astroparticle Physics, 2013, 45, 34-43.	4.3	45
22	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
23	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
24	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
25	The LUX dark matter search. Journal of Physics: Conference Series, 2010, 203, 012026.	0.4	34
26	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
27	Measurement and simulation of the muon-induced neutron yield in lead. Astroparticle Physics, 2013, 47, 67-76.	4.3	31
28	Commissioning of the vacuum system of the KATRIN Main Spectrometer. Journal of Instrumentation, 2016, 11, P04011-P04011.	1.2	29
29	Radioactivity backgrounds in ZEPLIN-III. Astroparticle Physics, 2012, 35, 495-502.	4.3	25
30	The XENON dark matter experiment. Nuclear Physics, Section B, Proceedings Supplements, 2005, 138, 156-159.	0.4	24
31	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
32	Quenching factor for low-energy nuclear recoils in a plastic scintillator. Physical Review C, 2012, 85, .	2.9	21
33	Performance of the veto detector incorporated into the ZEPLIN-III experiment. Astroparticle Physics, 2011, 35, 76-86.	4.3	19
34	Proposed low-energy absolute calibration of nuclear recoils in a dual-phase noble element TPC using $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0029.gif" overflow="scroll" \rangle \langle \text{mml:mi mathvariant="normal" \rangle D-D \langle \text{mml:math} \rangle$ 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
35	Electron radiated power in cyclotron radiation emission spectroscopy experiments. Physical Review C, 2019, 99, .	2.9	13
36	Status of the LUX Dark Matter Search. , 2010, , .		12

#	ARTICLE	IF	CITATIONS
37	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
38	Measurement of the gamma ray background in the Davis cavern at the Sanford Underground Research Facility. Astroparticle Physics, 2020, 116, 102391.	4.3	12
39	ZE3RA: the ZEPLIN-III Reduction and Analysis package. Journal of Instrumentation, 2011, 6, P11004-P11004.	1.2	11
40	Radon-related Backgrounds in the LUX Dark Matter Search. Physics Procedia, 2015, 61, 658-665.	1.2	9
41	Bayesian analysis of a future $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> \langle \text{mml:mi}> \hat{I}^2 </\text{mml:mi}> </\text{mml:math}>$ decay experiment's sensitivity to neutrino mass scale and ordering. Physical Review C, 2021, 103, .	2.9	9
42	Results from the LUX dark matter experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 784, 504-507.	1.6	8
43	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
44	The XENON dark matter search: status of XENON10. Journal of Physics: Conference Series, 2006, 39, 107-110.	0.4	7
45	3D Position Sensitive XeTPC for Dark Matter Search. Nuclear Physics, Section B, Proceedings Supplements, 2007, 173, 117-120.	0.4	7
46	The LUX prototype detector: Heat exchanger development. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 709, 29-36.	1.6	7
47	Soudan Low Background Counting Facility (SOLO). AIP Conference Proceedings, 2005, , .	0.4	6
48	Beta Cage: A New, Large-Area Multi-Wire Screening Detector For Surface Beta Contamination. AIP Conference Proceedings, 2005, , .	0.4	5
49	Performance data from the ZEPLIN-III second science run. Journal of Instrumentation, 2012, 7, C03044-C03044.	1.2	4
50	Locust: C++ software for simulation of RF detection. New Journal of Physics, 2019, 21, 113051.	2.9	4
51	Radio frequency measurements of the superconducting transition in $\hat{I}^2$ - $(\text{ET})_2\text{Cu}(\text{NCS})_2$ using a tunnel diode oscillator in pulsed magnetic fields. Synthetic Metals, 2001, 120, 723-724.	3.9	3
52	LUX Cryogenics and Circulation. Physics Procedia, 2012, 37, 1122-1130.	1.2	3
53	First Results of the LUX Dark Matter Experiment. Nuclear and Particle Physics Proceedings, 2016, 273-275, 309-313.	0.5	3
54	XENON. Nuclear Physics, Section B, Proceedings Supplements, 2007, 173, 113-116.	0.4	2

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55	Position reconstruction in a dual phase xenon scintillation detector. , 2011, , .		1
56	Cryogenic Large Liquid Xenon Detector for Dark Matter Searches. Journal of Physics: Conference Series, 2012, 400, 052021.	0.4	0
57	A measurement of the muon-induced neutron yield in lead at a depth of 2850 m water equivalent. , 2013, , .		0
58	The LUX Experiment. Physics Procedia, 2015, 61, 74-76.	1.2	0
59	Results from the Project 8 phase-1 cyclotron radiation emission spectroscopy detector. Journal of Physics: Conference Series, 2017, 888, 012074.	0.4	0
60	Project 8 Phase III Design Concept. Journal of Physics: Conference Series, 2017, 888, 012230.	0.4	0