

Henrique Araujo

List of Publications by Year in descending order

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54
papers

1,901
citations

279798

23
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54
docs citations

54
times ranked

5063
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and production of the high voltage electrode grids and electron extraction region for the LZ dual-phase xenon time projection chamber. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1031, 165955.	1.6	4
2	Simulations of events for the LUX-ZEPLIN (LZ) dark matter experiment. Astroparticle Physics, 2021, 125, 102480.	4.3	16
3	Measurement of the gamma ray background in the Davis cavern at the Sanford Underground Research Facility. Astroparticle Physics, 2020, 116, 102391.	4.3	12
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	AEDGE: Atomic Experiment for Dark Matter and Gravity Exploration in Space. EPJ Quantum Technology, 2020, 7, .	6.3	190
6	Low-background gamma spectroscopy at the Boulby Underground Laboratory. Astroparticle Physics, 2018, 97, 160-173.	4.3	22
7	Chromatographic separation of radioactive noble gases from xenon. Astroparticle Physics, 2018, 97, 80-87.	4.3	20
8	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
9	Position reconstruction in LUX. Journal of Instrumentation, 2018, 13, P02001-P02001.	1.2	25
10	Study and mitigation of spurious electron emission from cathodic wires in noble liquid time projection chambers. Astroparticle Physics, 2018, 103, 49-61.	4.3	16
11	Response of photomultiplier tubes to xenon scintillation light. Astroparticle Physics, 2018, 102, 56-66.	4.3	22
12	Identification of radiopure titanium for the LZ dark matter experiment and future rare event searches. Astroparticle Physics, 2017, 96, 1-10.	4.3	24
13	3D modeling of electric fields in the LUX detector. Journal of Instrumentation, 2017, 12, P11022-P11022.	1.2	21
14	First Results of the LUX Dark Matter Experiment. Nuclear and Particle Physics Proceedings, 2016, 273-275, 309-313.	0.5	3
15	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
16	The LUX Experiment. Physics Procedia, 2015, 61, 74-76.	1.2	0
17	Interplay and characterization of Dark Matter searches at colliders and in direct detection experiments. Physics of the Dark Universe, 2015, 9-10, 51-58.	4.9	40
18	Radon-related Backgrounds in the LUX Dark Matter Search. Physics Procedia, 2015, 61, 658-665.	1.2	9

#	ARTICLE	IF	CITATIONS
19	Simplified models for dark matter searches at the LHC. <i>Physics of the Dark Universe</i> , 2015, 9-10, 8-23.	4.9	250
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	Measurement and simulation of the muon-induced neutron yield in lead. <i>Astroparticle Physics</i> , 2013, 47, 67-76.	4.3	31
23	Results from the second science run of ZEPLIN-III. , 2012, , .		1
24	Radioactivity backgrounds in ZEPLIN-III. <i>Astroparticle Physics</i> , 2012, 35, 495-502.	4.3	25
25	WIMP-nucleon cross-section results from the second science run of ZEPLIN-III. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 709, 14-20.	4.1	124
26	Nuclear recoil scintillation and ionisation yields in liquid xenon from ZEPLIN-III data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 705, 471-476.	4.1	45
27	Performance of the veto detector incorporated into the ZEPLIN-III experiment. <i>Astroparticle Physics</i> , 2011, 35, 76-86.	4.3	19
28	Position reconstruction in a dual phase xenon scintillation detector. , 2011, , .		1
29	Calibration of photomultiplier arrays. <i>Astroparticle Physics</i> , 2010, 33, 13-18.	4.3	7
30	The ZEPLIN-III anti-coincidence veto detector. <i>Astroparticle Physics</i> , 2010, 34, 151-163.	4.3	23
31	Limits on inelastic dark matter from ZEPLIN-III. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010, 692, 180-183.	4.1	40
32	Simulation of neutrons produced by high-energy muons underground. <i>Astroparticle Physics</i> , 2009, 31, 366-375.	4.3	27
33	Performance results from the first science run of ZEPLIN-III. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 604, 41-44.	1.6	1
34	Measurements of neutrons produced by high-energy muons at the Boulby Underground Laboratory. <i>Astroparticle Physics</i> , 2008, 29, 471-481.	4.3	33
35	Measurement of single electron emission in two-phase xenon. <i>Astroparticle Physics</i> , 2008, 30, 54-57.	4.3	43
36	The ZEPLIN II dark matter detector: Data acquisition system and data reduction. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 587, 101-109.	1.6	5

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37	The ZEPLIN-III dark matter detector: Instrument design, manufacture and commissioning. <i>Astroparticle Physics</i> , 2007, 27, 46-60.	4.3	91
38	First limits on WIMP nuclear recoil signals in ZEPLIN-II: A two-phase xenon detector for dark matter detection. <i>Astroparticle Physics</i> , 2007, 28, 287-302.	4.3	122
39	Preliminary results on position reconstruction for ZEPLIN III. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 573, 200-203.	1.6	4
40	The ZEPLIN III Detector; Results from Surface Calibrations. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2007, 173, 108-112.	0.4	1
41	Limits on spin-dependent WIMP-nucleon cross-sections from the first ZEPLIN-II data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2007, 653, 161-166.	4.1	26
42	ASTROD and ASTROD I: Progress Report. <i>Journal of Physics: Conference Series</i> , 2006, 32, 154-160.	0.4	9
43	The ZEPLIN-III dark matter detector: Performance study using an end-to-end simulation tool. <i>Astroparticle Physics</i> , 2006, 26, 140-153.	4.3	24
44	Muon-induced neutron production and detection with GEANT4 and FLUKA. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005, 545, 398-411.	1.6	57
45	Veto performance for large-scale xenon dark matter detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005, 548, 418-426.	1.6	9
46	Limits on WIMP cross-sections from the NAIAD experiment at the Boulby Underground Laboratory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005, 616, 17-24.	4.1	93
47	Detailed calculation of test-mass charging in the LISA mission. <i>Astroparticle Physics</i> , 2005, 22, 451-469.	4.3	79
48	Description of charging/discharging processes of the LISA sensors. <i>Classical and Quantum Gravity</i> , 2004, 21, S597-S602.	4.0	28
49	Low-temperature study of 35 photomultiplier tubes for the ZEPLIN III experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 521, 407-415.	1.6	20
50	New estimates of test-mass charging in the LISA mission. , 2004, 5500, 174.		0
51	THUMPER: a 200- $\hat{1}$ / ₄ m photometer for ground-based astronomy. , 2003, , .		1
52	Study of bialkali photocathodes below room temperature in the UV/VUV region. <i>IEEE Transactions on Nuclear Science</i> , 1998, 45, 542-549.	2.0	24
53	Low temperature test of photomultiplier tubes. <i>Applied Radiation and Isotopes</i> , 1995, 46, 495-496.	1.5	3
54	Liquid xenon multiwire chamber for positron tomography. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1995, 367, 58-61.	1.6	13