Henrique Araujo

List of Publications by Year
in descending order

54 papers	1,901 citations	279798 23 h-index	243625 44 g-index
54 all docs	54 docs citations	54 times ranked	5063 citing authors

#	Article	IF	Citations
1	Simplified models for dark matter searches at the LHC. Physics of the Dark Universe, 2015, 9-10, 8-23.	4.9	250
2	AEDGE: Atomic Experiment for Dark Matter and Gravity Exploration in Space. EPJ Quantum Technology, 2020, 7, .	6.3	190
3	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
4	First limits on WIMP nuclear recoil signals in ZEPLIN-II: A two-phase xenon detector for dark matter detection. Astroparticle Physics, 2007, 28, 287-302.	4.3	122
5	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
6	Limits on WIMP cross-sections from the NAIAD experiment at the Boulby Underground Laboratory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 616, 17-24.	4.1	93
7	The ZEPLIN-III dark matter detector: Instrument design, manufacture and commissioning. Astroparticle Physics, 2007, 27, 46-60.	4.3	91
8	Detailed calculation of test-mass charging in the LISA mission. Astroparticle Physics, 2005, 22, 451-469.	4.3	79
9	Radiogenic and muon-induced backgrounds in the LUX dark matter detector. Astroparticle Physics, 2015, 62, 33-46.	4.3	71
10	Muon-induced neutron production and detection with GEANT4 and FLUKA. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 545, 398-411.	1.6	57
11	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
12	Measurement of single electron emission in two-phase xenon. Astroparticle Physics, 2008, 30, 54-57.	4.3	43
13	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
14	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
15	Measurements of neutrons produced by high-energy muons at the Boulby Underground Laboratory. Astroparticle Physics, 2008, 29, 471-481.	4.3	33
16	Measurement and simulation of the muon-induced neutron yield in lead. Astroparticle Physics, 2013, 47, 67-76.	4.3	31
17	Description of charging/discharging processes of the LISA sensors. Classical and Quantum Gravity, 2004, 21, S597-S602.	4.0	28
18	Simulation of neutrons produced by high-energy muons underground. Astroparticle Physics, 2009, 31, 366-375.	4.3	27

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19	Limits on spin-dependent WIMP-nucleon cross-sections from the first ZEPLIN-II data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 653, 161-166.	4.1	26
20	Radioactivity backgrounds in ZEPLINâ€“III. Astroparticle Physics, 2012, 35, 495-502.	4.3	25
21	Position reconstruction in LUX. Journal of Instrumentation, 2018, 13, P02001-P02001.	1.2	25
22	Study of bialkali photocathodes below room temperature in the UV/VUV region. IEEE Transactions on Nuclear Science, 1998, 45, 542-549.	2.0	24
23	The ZEPLIN-III dark matter detector: Performance study using an end-to-end simulation tool. Astroparticle Physics, 2006, 26, 140-153.	4.3	24
24	Identification of radiopure titanium for the LZ dark matter experiment and future rare event searches. Astroparticle Physics, 2017, 96, 1-10.	4.3	24
25	The ZEPLIN-III anti-coincidence veto detector. Astroparticle Physics, 2010, 34, 151-163.	4.3	23
26	Low-background gamma spectroscopy at the Boulby Underground Laboratory. Astroparticle Physics, 2018, 97, 160-173.	4.3	22
27	Response of photomultiplier tubes to xenon scintillation light. Astroparticle Physics, 2018, 102, 56-66.	4.3	22
28	3D modeling of electric fields in the LUX detector. Journal of Instrumentation, 2017, 12, P11022-P11022.	1.2	21
29	Low-temperature study of 35 photomultiplier tubes for the ZEPLIN III experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 521, 407-415.	1.6	20
30	Chromatographic separation of radioactive noble gases from xenon. Astroparticle Physics, 2018, 97, 80-87.	4.3	20
31	Performance of the veto detector incorporated into the ZEPLIN-III experiment. Astroparticle Physics, 2011, 35, 76-86.	4.3	19
32	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
33	Simulations of events for the LUX-ZEPLIN (LZ) dark matter experiment. Astroparticle Physics, 2021, 125, 102480.	4.3	16
34	Liquid xenon multiwire chamber for positron tomography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 367, 58-61.	1.6	13
35	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
36	Measurement of the gamma ray background in the Davis cavern at the Sanford Underground Research Facility. Astroparticle Physics, 2020, 116, 102391.	4.3	12

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37	Veto performance for large-scale xenon dark matter detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 548, 418-426.	1.6	9
38	ASTROD and ASTROD I: Progress Report. Journal of Physics: Conference Series, 2006, 32, 154-160.	0.4	9
39	Radon-related Backgrounds in the LUX Dark Matter Search. Physics Procedia, 2015, 61, 658-665.	1.2	9
40	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
41	Calibration of photomultiplier arrays. Astroparticle Physics, 2010, 33, 13-18.	4.3	7
42	The ZEPLIN II dark matter detector: Data acquisition system and data reduction. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 587, 101-109.	1.6	5
43	Preliminary results on position reconstruction for ZEPLIN III. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 573, 200-203.	1.6	4
44	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
45	Low temperature test of photomultiplier tubes. Applied Radiation and Isotopes, 1995, 46, 495-496.	1.5	3
46	First Results of the LUX Dark Matter Experiment. Nuclear and Particle Physics Proceedings, 2016, 273-275, 309-313.	0.5	3
47	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
48	THUMPER: a 200-Î¼m photometer for ground-based astronomy. , 2003, , .		1
49	The ZEPLIN III Detector; Results from Surface Calibrations. Nuclear Physics, Section B, Proceedings Supplements, 2007, 173, 108-112.	0.4	1
50	Performance results from the first science run of ZEPLIN-III. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, 41-44.	1.6	1
51	Position reconstruction in a dual phase xenon scintillation detector. , 2011, , .		1
52	Results from the second science run of ZEPLIN-III. , 2012, , .		1
53	New estimates of test-mass charging in the LISA mission. , 2004, 5500, 174.		0
54	The LUX Experiment. Physics Procedia, 2015, 61, 74-76.	1.2	0