

Eoin Butler

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7635040/publications.pdf>

Version: 2024-02-01

47
papers

1,551
citations

430874

18
h-index

434195

31
g-index

50
all docs

50
docs citations

50
times ranked

720
citing authors

#	ARTICLE	IF	CITATIONS
1	Safety Demonstration of a Class 1 Smart Device. Nuclear Technology, 2018, 202, 132-140.	1.2	0
2	Observation of the $1S \rightarrow 2S$ transition in trapped antihydrogen. Nature, 2017, 541, 506-510.	27.8	122
3	Antihydrogen accumulation for fundamental symmetry tests. Nature Communications, 2017, 8, 681.	12.8	64
4	Observation of the hyperfine spectrum of antihydrogen. Nature, 2017, 548, 66-69.	27.8	101
5	Limit on the electric charge of antihydrogen. Hyperfine Interactions, 2017, 238, 1.	0.5	0
6	An improved limit on the charge of antihydrogen from stochastic acceleration. Nature, 2016, 529, 373-376.	27.8	48
7	Physics with antihydrogen. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 232001.	1.5	33
8	In situ electromagnetic field diagnostics with an electron plasma in a Penning-Malmberg trap. New Journal of Physics, 2014, 16, 013037.	2.9	17
9	An experimental limit on the charge of antihydrogen. Nature Communications, 2014, 5, 3955.	12.8	40
10	The ALPHA antihydrogen trapping apparatus. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 735, 319-340.	1.6	51
11	Description and first application of a new technique to measure the gravitational mass of antihydrogen. Nature Communications, 2013, 4, 1785.	12.8	195
12	Silicon vertex detector upgrade in the ALPHA experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 732, 134-136.	1.6	7
13	Electron plasmas as a diagnostic tool for hyperfine spectroscopy of antihydrogen. , 2013, , .		1
14	Evaporative cooling of antiprotons for the production of trappable antihydrogen. , 2013, , .		0
15	Experimental and computational study of the injection of antiprotons into a positron plasma for antihydrogen production. Physics of Plasmas, 2013, 20, .	1.9	19
16	Discriminating between antihydrogen and mirror-trapped antiprotons in a minimum-B trap. New Journal of Physics, 2012, 14, 015010.	2.9	18
17	Antiparticle plasmas for antihydrogen trapping. , 2012, , .		0
18	Resonant quantum transitions in trapped antihydrogen atoms. Nature, 2012, 483, 439-443.	27.8	134

#	ARTICLE	IF	CITATIONS
19	The ALPHA " detector: Module Production and Assembly. Journal of Instrumentation, 2012, 7, C01051-C01051.	1.2	5
20	Antihydrogen formation by autoresonant excitation of antiproton plasmas. Hyperfine Interactions, 2012, 212, 61-67.	0.5	0
21	Trapped antihydrogen. Hyperfine Interactions, 2012, 212, 15-29.	0.5	12
22	Progress towards microwave spectroscopy of trapped antihydrogen. Hyperfine Interactions, 2012, 212, 81-90.	0.5	7
23	Microwave-plasma interactions studied via mode diagnostics in ALPHA. Hyperfine Interactions, 2012, 212, 117-123.	0.5	0
24	Alternative method for reconstruction of antihydrogen annihilation vertices. Hyperfine Interactions, 2012, 212, 101-107.	0.5	1
25	Antihydrogen annihilation reconstruction with the ALPHA silicon detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 684, 73-81.	1.6	24
26	Microwave-plasma interactions studied via mode diagnostics in ALPHA. , 2012, , 117-123.		0
27	Antiparticle sources for antihydrogen production and trapping. Journal of Physics: Conference Series, 2011, 262, 012001.	0.4	1
28	Search for trapped antihydrogen in ALPHA This paper was presented at the International Conference on Precision Physics of Simple Atomic Systems, held at École de Physique, les Houches, France, 30 May-4 June, 2010.. Canadian Journal of Physics, 2011, 89, 7-16.		0
29	Towards antihydrogen trapping and spectroscopy at ALPHA. Hyperfine Interactions, 2011, 199, 39-48.	0.5	0
30	Search for trapped antihydrogen. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 695, 95-104.	4.1	44
31	Autoresonant Excitation of Antiproton Plasmas. Physical Review Letters, 2011, 106, 025002.	7.8	62
32	Trapped antihydrogen. , 2011, , 15-29.		0
33	Progress towards microwave spectroscopy of trapped antihydrogen. , 2011, , 81-90.		0
34	Towards antihydrogen trapping and spectroscopy at ALPHA. , 2011, , 39-48.		0
35	Antihydrogen formation dynamics in a multipolar neutral anti-atom trap. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 685, 141-145.	4.1	37
36	Trapped antihydrogen. Nature, 2010, 468, 673-676.	27.8	298

#	ARTICLE	IF	CITATIONS
37	Evaporative Cooling of Antiprotons to Cryogenic Temperatures. Physical Review Letters, 2010, 105, 013003.	7.8	89
38	Antimatter transport processes. Journal of Physics: Conference Series, 2010, 257, 012004.	0.4	0
39	ALPHA ANTIHYDROGEN EXPERIMENT. , 2010, , .		0
40	Antiproton, positron, and electron imaging with a microchannel plate/phosphor detector. Review of Scientific Instruments, 2009, 80, 123701.	1.3	39
41	Magnetic multipole induced zero-rotation frequency bounce-resonant loss in a Penningâ€™Malmberg trap used for antihydrogen trapping. Physics of Plasmas, 2009, 16, 100702.	1.9	5
42	Particle Physics Aspects of Antihydrogen Studies with ALPHA at CERN. AIP Conference Proceedings, 2008, , .	0.4	11
43	First Attempts at Antihydrogen Trapping in ALPHA. AIP Conference Proceedings, 2008, , .	0.4	4
44	Antiproton compression and radial measurements. AIP Conference Proceedings, 2008, , .	0.4	1
45	A novel antiproton radial diagnostic based on octupole induced ballistic loss. Physics of Plasmas, 2008, 15, 032107.	1.9	8
46	Compression of Antiproton Clouds for Antihydrogen Trapping. Physical Review Letters, 2008, 100, 203401.	7.8	53
47	THE ALPHA ANTIHYDROGEN EXPERIMENT. , 2008, , .		0