Eoin Butler

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Trapped antihydrogen. Nature, 2010, 468, 673-676.	27.8	298
2	Description and first application of a new technique to measure the gravitational mass of antihydrogen. Nature Communications, 2013, 4, 1785.	12.8	195
3	Resonant quantum transitions in trapped antihydrogen atoms. Nature, 2012, 483, 439-443.	27.8	134
4	Observation of the 1S–2S transition in trapped antihydrogen. Nature, 2017, 541, 506-510.	27.8	122
5	Observation of the hyperfine spectrum of antihydrogen. Nature, 2017, 548, 66-69.	27.8	101
6	Evaporative Cooling of Antiprotons to Cryogenic Temperatures. Physical Review Letters, 2010, 105, 013003.	7.8	89
7	Antihydrogen accumulation for fundamental symmetry tests. Nature Communications, 2017, 8, 681.	12.8	64
8	Autoresonant Excitation of Antiproton Plasmas. Physical Review Letters, 2011, 106, 025002.	7.8	62
9	Compression of Antiproton Clouds for Antihydrogen Trapping. Physical Review Letters, 2008, 100, 203401.	7.8	53
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	An improved limit on the charge of antihydrogen from stochastic acceleration. Nature, 2016, 529, 373-376.	27.8	48
12	Search for trapped antihydrogen. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 695, 95-104.	4.1	44
13	An experimental limit on the charge of antihydrogen. Nature Communications, 2014, 5, 3955.	12.8	40
14	Antiproton, positron, and electron imaging with a microchannel plate/phosphor detector. Review of Scientific Instruments, 2009, 80, 123701.	1.3	39
15	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
16	Physics with antihydrogen. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 232001.	1.5	33
17	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
18	Experimental and computational study of the injection of antiprotons into a positron plasma for antihydrogen production. Physics of Plasmas, 2013, 20, .	1.9	19

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#	Article	IF	CITATIONS
19	Discriminating between antihydrogen and mirror-trapped antiprotons in a minimum-B trap. New Journal of Physics, 2012, 14, 015010.	2.9	18
20	In situ electromagnetic field diagnostics with an electron plasma in a Penning–Malmberg trap. New Journal of Physics, 2014, 16, 013037.	2.9	17
21	Trapped antihydrogen. Hyperfine Interactions, 2012, 212, 15-29.	0.5	12
22	Particle Physics Aspects of Antihydrogen Studies with ALPHA at CERN. AIP Conference Proceedings, 2008, , .	0.4	11
23	A novel antiproton radial diagnostic based on octupole induced ballistic loss. Physics of Plasmas, 2008, 15, 032107.	1.9	8
24	Progress towards microwave spectroscopy of trapped antihydrogen. Hyperfine Interactions, 2012, 212, 81-90.	0.5	7
25	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
26	Magnetic multipole induced zero-rotation frequency bounce-resonant loss in a Penning–Malmberg trap used for antihydrogen trapping. Physics of Plasmas, 2009, 16, 100702.	1.9	5
27	The ALPHA $\hat{a} \in \hat{C}$ detector: Module Production and Assembly. Journal of Instrumentation, 2012, 7, C01051-C01051.	1.2	5
28	First Attempts at Antihydrogen Trapping in ALPHA. AlP Conference Proceedings, 2008, , .	0.4	4
29	Antiproton compression and radial measurements. AIP Conference Proceedings, 2008, , .	0.4	1
30	Antiparticle sources for antihydrogen production and trapping. Journal of Physics: Conference Series, 2011, 262, 012001.	0.4	1
31	Alternative method for reconstruction of antihydrogen annihilation vertices. Hyperfine Interactions, 2012, 212, 101-107.	0.5	1
32	Electron plasmas as a diagnostic tool for hyperfine spectroscopy of antihydrogen. , 2013, , .		1
33	Antimatter transport processes. Journal of Physics: Conference Series, 2010, 257, 012004.	0.4	0
34	Search for trapped antihydrogen in ALPHAThis paper was presented at the International Conference on Precision Physics of Simple Atomic Systems, held at École de Physique, les Houches, France, 30 May –â€ June, 2010 Canadian Journal of Physics, 2011, 89, 7-16.	.‰ 1	0
35	Towards antihydrogen trapping and spectroscopy at ALPHA. Hyperfine Interactions, 2011, 199, 39-48.	0.5	0

36 Antiparticle plasmas for antihydrogen trapping. , 2012, , .

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37	Antihydrogen formation by autoresonant excitation of antiproton plasmas. Hyperfine Interactions, 2012, 212, 61-67.	0.5	0
38	Microwave-plasma interactions studied via mode diagnostics in ALPHA. Hyperfine Interactions, 2012, 212, 117-123.	0.5	0
39	Evaporative cooling of antiprotons for the production of trappable antihydrogen. , 2013, , .		0
40	Limit on the electric charge of antihydrogen. Hyperfine Interactions, 2017, 238, 1.	0.5	0
41	Safety Demonstration of a Class 1 Smart Device. Nuclear Technology, 2018, 202, 132-140.	1.2	0
42	THE ALPHA ANTIHYDROGEN EXPERIMENT. , 2008, , .		0
43	ALPHA ANTIHYDROGEN EXPERIMENT. , 2010, , .		0
44	Trapped antihydrogen. , 2011, , 15-29.		0
45	Progress towards microwave spectroscopy of trapped antihydrogen. , 2011, , 81-90.		0
46	Towards antihydrogen trapping and spectroscopy at ALPHA. , 2011, , 39-48.		0
47	Microwave-plasma interactions studied via mode diagnostics in ALPHA. , 2012, , 117-123.		0