

# Stefan Eriksson

## List of Publications by Year in descending order

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66  
papers

2,312  
citations

218677

26  
h-index

206112

48  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1368  
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser cooling of antihydrogen atoms. Nature, 2021, 592, 35-42.	27.8	47
2	Sympathetic cooling of positrons to cryogenic temperatures for antihydrogen production. Nature Communications, 2021, 12, 6139.	12.8	18
3	Magnetically trapped atoms in the vicinity of an optical nanofibre. Applied Physics B: Lasers and Optics, 2020, 126, 1.	2.2	0
4	Investigation of the fine structure of antihydrogen. Nature, 2020, 578, 375-380.	27.8	43
5	Characterization of the $1S \leftarrow 2S$ transition in antihydrogen. Nature, 2018, 557, 71-75.	27.8	107
6	Enhanced Control and Reproducibility of Non-Neutral Plasmas. Physical Review Letters, 2018, 120, 025001.	7.8	18
7	Precision measurements on trapped antihydrogen in the ALPHA experiment. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170268.	3.4	10
8	Observation of the $1S \leftarrow 2P$ Lyman- $\hat{1}\pm$ transition in antihydrogen. Nature, 2018, 561, 211-215.	27.8	51
9	Observation of the $1S \leftarrow 2S$ transition in trapped antihydrogen. Nature, 2017, 541, 506-510.	27.8	122
10	Antihydrogen accumulation for fundamental symmetry tests. Nature Communications, 2017, 8, 681.	12.8	64
11	Observation of the hyperfine spectrum of antihydrogen. Nature, 2017, 548, 66-69.	27.8	101
12	Limit on the electric charge of antihydrogen. Hyperfine Interactions, 2017, 238, 1.	0.5	0
13	Cold neutral atoms via charge exchange from excited state positronium: a proposal. New Journal of Physics, 2017, 19, 053020.	2.9	6
14	Towards a test of the weak equivalence principle of gravity using anti-hydrogen at CERN. , 2016, , .		0
15	An improved limit on the charge of antihydrogen from stochastic acceleration. Nature, 2016, 529, 373-376.	27.8	48
16	Antiproton cloud compression in the ALPHA apparatus at CERN. Hyperfine Interactions, 2015, 235, 21-28.	0.5	4
17	The GBAR antimatter gravity experiment. Hyperfine Interactions, 2015, 233, 21-27.	0.5	109
18	In situ electromagnetic field diagnostics with an electron plasma in a Penning-Malmberg trap. New Journal of Physics, 2014, 16, 013037.	2.9	17

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19	The Gbar project, or how does antimatter fall?. <i>Hyperfine Interactions</i> , 2014, 228, 141-150.	0.5	47
20	An experimental limit on the charge of antihydrogen. <i>Nature Communications</i> , 2014, 5, 3955.	12.8	40
21	The ALPHA antihydrogen trapping apparatus. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 735, 319-340.	1.6	51
22	Description and first application of a new technique to measure the gravitational mass of antihydrogen. <i>Nature Communications</i> , 2013, 4, 1785.	12.8	195
23	Silicon vertex detector upgrade in the ALPHA experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 732, 134-136.	1.6	7
24	Autoresonant-spectrometric determination of the residual gas composition in the ALPHA experiment apparatus. <i>Review of Scientific Instruments</i> , 2013, 84, 065110.	1.3	0
25	Electron plasmas as a diagnostic tool for hyperfine spectroscopy of antihydrogen. , 2013, , .		1
26	Experimental and computational study of the injection of antiprotons into a positron plasma for antihydrogen production. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	19
27	Antihydrogen in a bottle. <i>Physics Education</i> , 2013, 48, 212-220.	0.5	1
28	Discriminating between antihydrogen and mirror-trapped antiprotons in a minimum-B trap. <i>New Journal of Physics</i> , 2012, 14, 015010.	2.9	18
29	Antiparticle plasmas for antihydrogen trapping. , 2012, , .		0
30	Resonant quantum transitions in trapped antihydrogen atoms. <i>Nature</i> , 2012, 483, 439-443.	27.8	134
31	The ALPHA "detector: Module Production and Assembly. <i>Journal of Instrumentation</i> , 2012, 7, C01051-C01051.	1.2	5
32	Antihydrogen formation by autoresonant excitation of antiproton plasmas. <i>Hyperfine Interactions</i> , 2012, 212, 61-67.	0.5	0
33	Trapped antihydrogen. <i>Hyperfine Interactions</i> , 2012, 212, 15-29.	0.5	12
34	Progress towards microwave spectroscopy of trapped antihydrogen. <i>Hyperfine Interactions</i> , 2012, 212, 81-90.	0.5	7
35	Microwave-plasma interactions studied via mode diagnostics in ALPHA. <i>Hyperfine Interactions</i> , 2012, 212, 117-123.	0.5	0
36	Alternative method for reconstruction of antihydrogen annihilation vertices. <i>Hyperfine Interactions</i> , 2012, 212, 101-107.	0.5	1

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37	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
38	Microwave-plasma interactions studied via mode diagnostics in ALPHA. , 2012, , 117-123.		0
39	Microwave sidebands for atomic physics experiments by period one oscillation in optically injected diode lasers. Europhysics Letters, 2011, 96, 53001.	2.0	0
40	Centrifugal Separation and Equilibration Dynamics in an Electron-Antiproton Plasma. Physical Review Letters, 2011, 106, 145001.	7.8	26
41	Trapped antihydrogen. , 2011, , 15-29.		0
42	Progress towards microwave spectroscopy of trapped antihydrogen. , 2011, , 81-90.		0
43	Atom chip for BEC interferometry. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 051003.	1.5	18
44	Trapped antihydrogen. Nature, 2010, 468, 673-676.	27.8	298
45	Measuring Energy Differences by BEC Interferometry on a Chip. Physical Review Letters, 2010, 105, 243003.	7.8	58
46	Atom Detection and Photon Production in a Scalable, Open, Optical Microcavity. Physical Review Letters, 2007, 99, 063601.	7.8	96
47	Integration of a tunable optical micro-cavity for single atom detection on an atom chip. , 2007, , .		0
48	Pyramidal micromirrors for microsystems and atom chips. Applied Physics Letters, 2006, 88, 071116.	3.3	40
49	MEMS actuators for aligning and tuning optical micro cavities on atom chips. , 2006, , .		0
50	Permanent-magnet atom chips for the study of long, thin atom clouds. Journal of Physics: Conference Series, 2005, 19, 70-73.	0.4	3
51	Preparation of a Bose-Einstein condensate on a permanent-magnet atom chip. Journal of Physics: Conference Series, 2005, 19, 74-77.	0.4	4
52	Cold atoms in videotape micro-traps. European Physical Journal D, 2005, 35, 105-110.	1.3	15
53	Integrated optical components on atom chips. European Physical Journal D, 2005, 35, 135-139.	1.3	37
54	A three-dimensional electrostatic actuator with a locking mechanism for microcavities on atom chips. Journal of Micromechanics and Microengineering, 2005, 15, S39-S46.	2.6	11

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55	Microfabricated high-finesse optical cavity with open access and small volume. Applied Physics Letters, 2005, 87, 211106.	3.3	140
56	Bose-Einstein condensation on a permanent-magnet atom chip. Physical Review A, 2005, 72, .	2.5	59
57	Strong nuclear force in cold antihydrogen-helium collisions. Physical Review A, 2004, 70, .	2.5	26
58	Leptonic annihilation in hydrogen-antihydrogen collisions. Physical Review A, 2004, 70, .	2.5	20
59	Positron-Annihilation in Hydrogen-Antihydrogen Collisions. Advances in Quantum Chemistry, 2004, 47, 465-480.	0.8	0
60	Hydrogen-Antihydrogen Molecule and Its Properties. Few-Body Systems, 2004, 34, 63.	1.5	9
61	Micron-sized atom traps made from magneto-optical thin films. Applied Physics B: Lasers and Optics, 2004, 79, 811-816.	2.2	27
62	Observations on the dynamics of semiconductor lasers subjected to external optical injection. Journal of Optics B: Quantum and Semiclassical Optics, 2002, 4, 149-154.	1.4	36
63	Dependence of the experimental stability diagram of an optically injected semiconductor laser on the laser current. Optics Communications, 2002, 210, 343-353.	2.1	20
64	Periodic oscillation within the chaotic region in a semiconductor laser subjected to external optical injection. Optics Letters, 2001, 26, 142.	3.3	30
65	A simple extended cavity diode laser for spectroscopy around 640 nm. Optics and Laser Technology, 1999, 31, 473-477.	4.6	11
66	Nonlinear dynamics of semiconductor lasers subject to external optical injection. , 0, , .		0