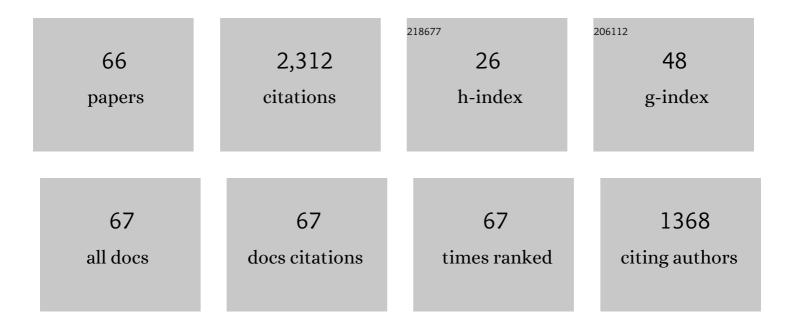
## Stefan Eriksson

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	Microfabricated high-finesse optical cavity with open access and small volume. Applied Physics Letters, 2005, 87, 211106.	3.3	140
4	Resonant quantum transitions in trapped antihydrogen atoms. Nature, 2012, 483, 439-443.	27.8	134
5	Observation of the 1S–2S transition in trapped antihydrogen. Nature, 2017, 541, 506-510.	27.8	122
6	The GBAR antimatter gravity experiment. Hyperfine Interactions, 2015, 233, 21-27.	0.5	109
7	Characterization of the 1S–2S transition in antihydrogen. Nature, 2018, 557, 71-75.	27.8	107
8	Observation of the hyperfine spectrum of antihydrogen. Nature, 2017, 548, 66-69.	27.8	101
9	Atom Detection and Photon Production in a Scalable, Open, Optical Microcavity. Physical Review Letters, 2007, 99, 063601.	7.8	96
10	Antihydrogen accumulation for fundamental symmetry tests. Nature Communications, 2017, 8, 681.	12.8	64
11	Bose-Einstein condensation on a permanent-magnet atom chip. Physical Review A, 2005, 72, .	2.5	59
12	Measuring Energy Differences by BEC Interferometry on a Chip. Physical Review Letters, 2010, 105, 243003.	7.8	58
13	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
14	Observation of the 1S–2P Lyman-α transition in antihydrogen. Nature, 2018, 561, 211-215.	27.8	51
15	An improved limit on the charge of antihydrogen from stochastic acceleration. Nature, 2016, 529, 373-376.	27.8	48
16	The Gbar project, or how does antimatter fall?. Hyperfine Interactions, 2014, 228, 141-150.	0.5	47
17	Laser cooling of antihydrogen atoms. Nature, 2021, 592, 35-42.	27.8	47
18	Investigation of the fine structure of antihydrogen. Nature, 2020, 578, 375-380.	27.8	43

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19	Pyramidal micromirrors for microsystems and atom chips. Applied Physics Letters, 2006, 88, 071116.	3.3	40
20	An experimental limit on the charge of antihydrogen. Nature Communications, 2014, 5, 3955.	12.8	40
21	Integrated optical components on atom chips. European Physical Journal D, 2005, 35, 135-139.	1.3	37
22	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
23	Periodic oscillation within the chaotic region in a semiconductor laser subjected to external optical injection. Optics Letters, 2001, 26, 142.	3.3	30
24	Micron-sized atom traps made from magneto-optical thin films. Applied Physics B: Lasers and Optics, 2004, 79, 811-816.	2.2	27
25	Strong nuclear force in cold antihydrogen-helium collisions. Physical Review A, 2004, 70, .	2.5	26
26	Centrifugal Separation and Equilibration Dynamics in an Electron-Antiproton Plasma. Physical Review Letters, 2011, 106, 145001.	7.8	26
27	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
28	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
29	Leptonic annihilation in hydrogen-antihydrogen collisions. Physical Review A, 2004, 70, .	2.5	20
30	Experimental and computational study of the injection of antiprotons into a positron plasma for antihydrogen production. Physics of Plasmas, 2013, 20, .	1.9	19
31	Atom chip for BEC interferometry. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 051003.	1.5	18
32	Discriminating between antihydrogen and mirror-trapped antiprotons in a minimum-B trap. New Journal of Physics, 2012, 14, 015010.	2.9	18
33	Enhanced Control and Reproducibility of Non-Neutral Plasmas. Physical Review Letters, 2018, 120, 025001.	7.8	18
34	Sympathetic cooling of positrons to cryogenic temperatures for antihydrogen production. Nature Communications, 2021, 12, 6139.	12.8	18
35	In situ electromagnetic field diagnostics with an electron plasma in a Penning–Malmberg trap. New Journal of Physics, 2014, 16, 013037.	2.9	17
36	Cold atoms in videotape micro-traps. European Physical Journal D, 2005, 35, 105-110.	1.3	15

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#	Article	IF	CITATIONS
37	Trapped antihydrogen. Hyperfine Interactions, 2012, 212, 15-29.	0.5	12
38	A simple extended cavity diode laser for spectroscopy around 640 nm. Optics and Laser Technology, 1999, 31, 473-477.	4.6	11
39	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
40	Precision measurements on trapped antihydrogen in the ALPHA experiment. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170268.	3.4	10
41	Hydrogen-Antihydrogen Molecule and Its Properties. Few-Body Systems, 2004, 34, 63.	1.5	9
42	Progress towards microwave spectroscopy of trapped antihydrogen. Hyperfine Interactions, 2012, 212, 81-90.	0.5	7
43	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
44	Cold neutral atoms via charge exchange from excited state positronium: a proposal. New Journal of Physics, 2017, 19, 053020.	2.9	6
45	The ALPHA $\hat{a} \in \hat{C}$ detector: Module Production and Assembly. Journal of Instrumentation, 2012, 7, C01051-C01051.	1.2	5
46	Preparation of a Bose–Einstein condensate on a permanent-magnet atom chip. Journal of Physics: Conference Series, 2005, 19, 74-77.	0.4	4
47	Antiproton cloud compression in the ALPHA apparatus at CERN. Hyperfine Interactions, 2015, 235, 21-28.	0.5	4
48	Permanent-magnet atom chips for the study of long, thin atom clouds. Journal of Physics: Conference Series, 2005, 19, 70-73.	0.4	3
49	Alternative method for reconstruction of antihydrogen annihilation vertices. Hyperfine Interactions, 2012, 212, 101-107.	0.5	1
50	Electron plasmas as a diagnostic tool for hyperfine spectroscopy of antihydrogen. , 2013, , .		1
51	Antihydrogen in a bottle. Physics Education, 2013, 48, 212-220.	0.5	1
52	Nonlinear dynamics of semiconductor lasers subject to external optical injection. , 0, , .		0
53	Positron–Electron Annihilation in Hydrogen–Antihydrogen Collisions. Advances in Quantum Chemistry, 2004, 47, 465-480.	0.8	0
54	Integration of a tunable optical micro-cavity for single atom detection on an atom chip. , 2007, , .		0

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#	Article	IF	CITATIONS
55	Microwave sidebands for atomic physics experiments by period one oscillation in optically injected diode lasers. Europhysics Letters, 2011, 96, 53001.	2.0	0
56	Antiparticle plasmas for antihydrogen trapping. , 2012, , .		0
57	Antihydrogen formation by autoresonant excitation of antiproton plasmas. Hyperfine Interactions, 2012, 212, 61-67.	0.5	0
58	Microwave-plasma interactions studied via mode diagnostics in ALPHA. Hyperfine Interactions, 2012, 212, 117-123.	0.5	0
59	Autoresonant-spectrometric determination of the residual gas composition in the ALPHA experiment apparatus. Review of Scientific Instruments, 2013, 84, 065110.	1.3	0
60	Towards a test of the weak equivalence principle of gravity using anti-hydrogen at CERN. , 2016, , .		0
61	Limit on the electric charge of antihydrogen. Hyperfine Interactions, 2017, 238, 1.	0.5	0
62	Magnetically trapped atoms in the vicinity of an optical nanofibre. Applied Physics B: Lasers and Optics, 2020, 126, 1.	2.2	0
63	MEMS actuators for aligning and tuning optical micro cavities on atom chips. , 2006, , .		0
64	Trapped antihydrogen. , 2011, , 15-29.		0
65	Progress towards microwave spectroscopy of trapped antihydrogen. , 2011, , 81-90.		0
66	Microwave-plasma interactions studied via mode diagnostics in ALPHA. , 2012, , 117-123.		0