Craig M Savage

List of Publications by Year
in descending order

42 papers	2,357 citations	185998 28 h-index	264894 42 g-index
42 all docs	42 docs citations	42 times ranked	1318 citing authors

#	Article	IF	Citations
1	Bose-Einstein condensates in optical lattices: Band-gap structure and solitons. Physical Review A, 2003, 67, .	1.0	235
2	One-atom lasers. Physical Review A, 1992, 46, 5944-5954.	1.0	186
3	Coherent atomic waveguides from hollow optical fibers: Quantized atomic motion. Physical Review A, 1994, 50, 2680-2690.	1.0	151
4	Creating macroscopic quantum superpositions with Bose-Einstein condensates. Physical Review A, 1999, 59, 4623-4629.	1.0	121
5	Single atom optical bistability. IEEE Journal of Quantum Electronics, 1988, 24, 1495-1498.	1.0	116
6	Energetically Stable Particlelike Skyrmions in a Trapped Bose-Einstein Condensate. Physical Review Letters, 2003, 91, 010403.	2.9	109
7	A multimode quantum theory of a degenerate parametric amplifier in a cavity. Optics Communications, 1984, 50, 173-178.	1.0	97
8	Damping of quantum coherence: The master-equation approach. Physical Review A, 1985, 32, 2316-2323.	1.0	95
9	Atom laser based on Raman transitions. Physical Review A, 1997, 55, 3631-3638.	1.0	80
10	Excitation spectrum and instability of a two-species Bose-Einstein condensate. Physical Review A, 1998, 58, 1440-1444.	1.0	73
11	Macroscopic quantum superpositions by means of single-atom dispersion. Optics Letters, 1990, 15, 628.	1.7	72
12	Born and Markov approximations for atom lasers. Physical Review A, 1999, 59, 667-675.	1.0	67
13	Stationary two-level atomic inversion in a quantized cavity field. Physical Review Letters, 1988, 60, 1828-1831.	2.9	64
14	Master equation for a damped nonlinear oscillator. Physical Review A, 1986, 34, 3969-3973.	1.0	53
15	Bose-Einstein condensate collapse: A comparison between theory and experiment. Physical Review A, 2003, 67, .	1.0	53
16	Squeezed light from a coherently pumped four-level laser. Physical Review A, 1991, 44, 7809-7814.	1.0	52
17	Dirac monopoles and dipoles in ferromagnetic spinor Bose-Einstein condensates. Physical Review A, 2003, 68, .	1.0	51
18	Collapse and three-body loss in a85Rb Bose-Einstein condensate. Physical Review A, 2011, 84, .	1.0	43

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19	Superradiant scattering from a hydrodynamic vortex. Classical and Quantum Gravity, 2005, 22, 3833-3839.	1.5	42
20	Quantum depletion of collapsing Bose-Einstein condensates. Physical Review A, 2007, 75, .	1.0	41
21	Steady-state two-level atomic population inversion via a quantized cavity field. Physical Review A, 1988, 38, 5182-5192.	1.0	40
22	First-principles quantum simulations of dissociation of molecular condensates: Atom correlations in momentum space. Physical Review A, 2006, 74, .	1.0	39
23	Real Time Relativity: Exploratory learning of special relativity. American Journal of Physics, 2007, 75, 791-798.	0.3	39
24	Atomic four-wave mixing via condensate collisions. New Journal of Physics, 2008, 10, 045021.	1.2	38
25	Resonance fluorescence spectrum of an atom strongly coupled to a cavity. Physical Review Letters, 1989, 63, 1376-1379.	2.9	37
26	Numerical study of the stability of skyrmions in Bose-Einstein condensates. Physical Review A, 2005, 72, .	1.0	36
27	Collapsing Bose-Einstein condensates beyond the Gross-Pitaevskii approximation. Physical Review A, 2005, 71, .	1.0	31
28	Relativity concept inventory: Development, analysis, and results. Physical Review Physics Education Research, 2013, 9, .	1.7	31
29	Student experiences of virtual reality: A case study in learning special relativity. American Journal of Physics, 2010, 78, 862-868.	0.3	29
30	Fluctuations and flux: The limits of multistate atom lasers. Physical Review A, 2004, 69, .	1.0	27
31	Spatial Pair Correlations of Atoms in Molecular Dissociation. Physical Review Letters, 2007, 99, 220404.	2.9	27
32	Stability of Continuously Pumped Atom Lasers. Physical Review Letters, 2002, 88, 170403.	2.9	26
33	Limits to the analog Hawking temperature in a Bose-Einstein condensate. Physical Review A, 2007, 76, .	1.0	23
34	Oscillations and quantized second-harmonic generation. Physical Review A, 1988, 37, 158-162.	1.0	22
35	Probing a doubly driven two-level atom. Journal of Optics B: Quantum and Semiclassical Optics, 1999, 1, 240-244.	1.4	20
36	Atom-laser dynamics. Physical Review A, 2001, 64, .	1.0	18

#	Article	IF	Citations
37	Developing a virtual physics world. Australasian Journal of Educational Technology, 2012, 28, .	2.0	17
38	Quantum-field dynamics of expanding and contracting Bose-Einstein condensates. Physical Review A, 2008, 77, .	1.0	15
39	Interacting classical and quantum particles. Physical Review A, 2012, 85, .	1.0	15
40	Directional effects due to quantum statistics in dissociation of elongated molecular condensates. Physical Review A, 2009, 79, .	1.0	9
41	Introduction to Light Forces, Atom Cooling, and Atom Trapping. Australian Journal of Physics, 1996, 49, 745.	0.6	9
42	Nonlocal signaling in the configuration space model of quantum-classical interactions. Physical Review A, 2012, 86, .	1.0	8