Charles A Sackett

List of Publications by Year
in descending order

67	10,146	159358 30	118652 62
papers	citations	h-index	g-index

70	70	70	4610
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evidence of Bose-Einstein Condensation in an Atomic Gas with Attractive Interactions. Physical Review Letters, 1995, 75, 1687-1690.	2.9	2,774
2	Experimental entanglement of four particles. Nature, 2000, 404, 256-259.	13.7	1,259
3	Bose-Einstein Condensation of Lithium: Observation of Limited Condensate Number. Physical Review Letters, 1997, 78, 985-989.	2.9	1,091
4	Experimental violation of a Bell's inequality with efficient detection. Nature, 2001, 409, 791-794.	13.7	808
5	Decoherence of quantum superpositions through coupling to engineered reservoirs. Nature, 2000, 403, 269-273.	13.7	607
6	Heating of trapped ions from the quantum ground state. Physical Review A, 2000, 61, .	1.0	432
7	A Decoherence-Free Quantum Memory Using Trapped Ions. Science, 2001, 291, 1013-1015.	6.0	411
8	Superfluidity of Spin-Polarized6Li. Physical Review Letters, 1996, 76, 10-13.	2.9	283
9	Decoherence and decay of motional quantum states of a trapped atom coupled to engineered reservoirs. Physical Review A, 2000, 62, .	1.0	239
10	Experimental Demonstration of Entanglement-Enhanced Rotation Angle Estimation Using Trapped Ions. Physical Review Letters, 2001, 86, 5870-5873.	2.9	236
11	Measurement of Cs-Cs elastic scattering atT=30 Î¼K. Physical Review Letters, 1993, 70, 414-417.	2.9	224
12	Spectroscopic Determination of thes-Wave Scattering Length of Lithium. Physical Review Letters, 1995, 74, 1315-1318.	2.9	203
13	Superfluid state of atomic6Liin a magnetic trap. Physical Review A, 1997, 56, 4864-4878.	1.0	194
14	Evidence of Bose-Einstein Condensation in an Atomic Gas with Attractive Interactions [Phys. Rev. Lett. 75, 1687 (1995)]. Physical Review Letters, 1997, 79, 1170-1170.	2.9	156
15	Measurements of Collective Collapse in a Bose-Einstein Condensate with Attractive Interactions. Physical Review Letters, 1999, 82, 876-879.	2.9	154
16	Growth and Collapse of a Bose-Einstein Condensate with Attractive Interactions. Physical Review Letters, 1998, 80, 2031-2034.	2.9	150
17	Sympathetic cooling of trapped ions for quantum logic. Physical Review A, 2000, 61, .	1.0	123
18	Vacuum-pressure measurement using a magneto-optical trap. Physical Review A, 2012, 85, .	1.0	63

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19	Bose-Einstein-condensate interferometer with macroscopic arm separation. Physical Review A, 2006, 74, .	1.0	60
20	Bose-Einstein condensation of lithium. Applied Physics B: Lasers and Optics, 1997, 65, 433-440.	1.1	53
21	Quantum Rotation Sensing with Dual Sagnac Interferometers in an Atom-Optical Waveguide. Physical Review Letters, 2020, 124, 120403.	2.9	47
22	Optical detection of a Bardeen-Cooper-Schrieffer phase transition in a trapped gas of fermionic atoms. Physical Review A, 1999, 60, 504-507.	1.0	45
23	Permanent magnet trap for cold atoms. Physical Review A, 1995, 51, R22-R25.	1.0	44
24	Analysis of in situ images of Bose-Einstein condensates of lithium. Physical Review A, 1997, 55, 3951-3953.	1.0	40
25	High-precision measurements of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Rb</mml:mi><mml:mprescripts /><mml:none /><mml:mn>87</mml:mn></mml:mmultiscripts><mml:mo>Â</mml:mo><mml:mi>D</mml:mi></mml:math>-line tune-out wavelength. Physical Review A, 2015, 92, .	1.0	40
26	Dipolar relaxation collisions in magnetically trapped7Li. Physical Review A, 1999, 59, 1514-1516.	1.0	36
27	Confinement effects in a guided-wave atom interferometer with millimeter-scale arm separation. Physical Review A, 2008, 78, .	1.0	35
28	Suspension of Atoms Using Optical Pulses, and Application to Gravimetry. Physical Review Letters, 2009, 102, 150403.	2.9	33
29	Measurement of the ac Stark shift with a guided matter-wave interferometer. Physical Review A, 2008, 77, .	1.0	32
30	Scalable Bose-Einstein-condensate Sagnac interferometer in a linear trap. Physical Review A, 2009, 80, .	1.0	30
31	Optimization of evaporative cooling. Physical Review A, 1997, 55, 3797-3801.	1.0	26
32	High-fidelity manipulation of a Bose-Einstein condensate using an optical standing wave. Physical Review A, 2007, 76, .	1.0	18
33	Compact implementation of a scanning transfer cavity lock. Review of Scientific Instruments, 2005, 76, 116105.	0.6	17
34	A magnetic suspension system for atoms and bar magnets. American Journal of Physics, 1993, 61, 304-309.	0.3	16
35	Time-orbiting potential trap for Bose-Einstein condensate interferometry. Physical Review A, 2005, 72, .	1.0	16
36	Temperature stability of a dichroic atomic vapor laser lock. Applied Optics, 2006, 45, 372.	2.1	12

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37	Extreme Adiabatic Expansion in Micro-gravity: Modeling for the Cold Atomic Laboratory. Microgravity Science and Technology, 2018, 30, 155-163.	0.7	12
38	Decoherence of motional states of trapped ions. Journal of Modern Optics, 2000, 47, 2181-2186.	0.6	9
39	Obtaining Atomic Matrix Elements from Vector Tune-Out Wavelengths Using Atom Interferometry. Atoms, 2016, 4, 12.	0.7	9
40	Core polarizability of rubidium using spectroscopy of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>n</mml:mi><mml:mi>g</mml:mi></mml:mrow></mml:ma to <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>n</mml:mi><mml:mi>h</mml:mi></mml:mrow><mml:mo Rydberg transitions. Physical Review A, 2020, 102, .	1.0	9
41	Utility of atomic kicked-rotor interferometers for precision measurements. Physical Review A, 2011, 83, .	1.0	8
42	Effect of trap anharmonicity on a free-oscillation atom interferometer. Physical Review A, 2012, 86, .	1.0	8
43	A cylindrically symmetric magnetic trap for compact Bose-Einstein condensate atom interferometer gyroscopes. Review of Scientific Instruments, 2017, 88, 013102.	0.6	8
44	Limits on weak magnetic confinement of neutral atoms. Physical Review A, 2006, 73, .	1.0	7
45	Stabilizing an attractive Bose-Einstein condensate by driving a surface collective mode. Physical Review A, 2001, 63, .	1.0	6
46	Quasi-Adiabatic External State Preparation of Ultracold Atoms in Microgravity. Microgravity Science and Technology, 2020, 32, 1175-1184.	0.7	6
47	A white-light trap for Boseâ€“Einstein condensates. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, 15-20.	1.4	5
48	A stable ac current source for magnetic traps. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 2949-2957.	0.6	5
49	Dynamics of Bose-Einstein condensation in a gas with attractive interactions. Journal of Optics B: Quantum and Semiclassical Optics, 2001, 3, R1-R28.	1.4	4
50	Scalable entanglement of trapped ions. AIP Conference Proceedings, 2001, , .	0.3	4
51	An atomic SQUID. Nature, 2014, 505, 166-167.	13.7	4
52	Cold meeting at a junction. Nature, 2007, 449, 547-549.	13.7	3
53	A condensate's main squeeze. Nature, 2010, 464, 1133-1134.	13.7	3
54	Estimation of phase diffusion rates in a condensate interferometer using the Grossâ€“Pitaevskii equation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 205301.	0.6	3

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55	Fast phase stabilization of a low frequency beat note for atom interferometry. Review of Scientific Instruments, 2016, 87, 063105.	0.6	3
56	<title>Bose-Einstein condensation of lithium</title>. , 1997, 2995, 223.		2
57	Far-off-resonant ring trap near the ends of optical fibers. Physical Review A, 2007, 76, .	1.0	1
58	Precise control of magnetic fields and optical polarization in a time-orbiting potential trap. Physical Review A, 2020, 102, .	1.0	1
59	Semiclassical Phase Analysis for a Trapped-Atom Sagnac Interferometer. Atoms, 2021, 9, 21.	0.7	1
60	Modeling Atom Interferometry Experiments with Boseâ€“Einstein Condensates in Power-Law Potentials. Atoms, 2022, 10, 34.	0.7	1
61	Measurement of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Rb</mml:mi><mml:mprescripts /><mml:none /><mml:mn>87</mml:mn></mml:mmultiscripts><mml:mo>Â</mml:mo><mml:mi>D</mml:mi></mml:math> -line vector tune-out wavelength. Physical Review A, 2022, 105, .	1.0	1
62	Probing a Bose-Einstein condensate by near-resonant light scattering. , 1999, , .		0
63	Collective collapse of a Bose-Einstein condensate with attractive interactions. , 1999, , .		0
64	Decoherence of motional superpositions of a trapped ion. Chaos, Solitons and Fractals, 2003, 16, 431-437.	2.5	0
65	Atom interferometry using Bose-Einstein condensates on Earth and in space. Proceedings of SPIE, 2015, , .	0.8	0
66	Decoherence of trapped-atom motional state superpositions. , 2003, , 287-295.		0
67	A large-area Sagnac interferometer using atoms in a time-orbiting potential. , 2019, , .		0