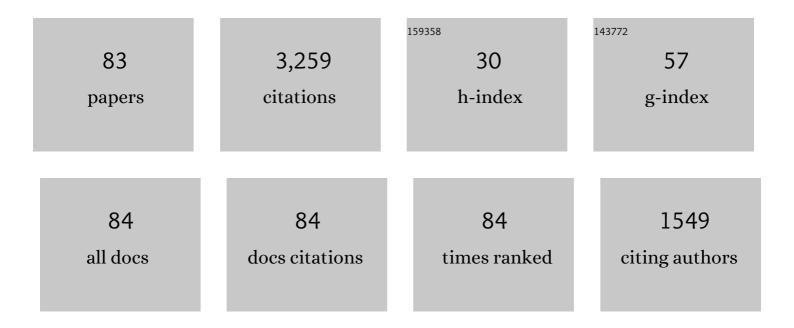
Ashton Bradley

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Turbulent Relaxation to Equilibrium in a Two-Dimensional Quantum Vortex Gas. Physical Review X, 2022, 12, .	2.8	9
2	Neutral Vortex Necklace in a Trapped Planar Superfluid. Journal of Low Temperature Physics, 2021, 202, 310-328.	0.6	4
3	Steady states, squeezing, and entanglement in intracavity triplet down conversion. Optics Communications, 2021, 484, 126699.	1.0	1
4	Superflow decay in a toroidal Bose gas: The effect of quantum and thermal fluctuations. SciPost Physics, 2021, 11, .	1.5	7
5	Dynamics of hot Bose-Einstein condensates: stochastic Ehrenfest relations for number and energy damping. SciPost Physics, 2020, 8, .	1.5	2
6	Giant vortex clusters in a two-dimensional quantum fluid. Science, 2019, 364, 1264-1267.	6.0	133
7	ThermallyÂrobust spin correlations between two 85Rb atoms in an optical microtrap. Nature Communications, 2019, 10, 1889.	5.8	13
8	Coherent vortex dynamics in a strongly interacting superfluid on a silicon chip. Science, 2019, 366, 1480-1485.	6.0	33
9	Snell's Law for a vortex dipole in a Bose-Einstein condensate. SciPost Physics, 2019, 6, .	1.5	8
10	Mesoscopic Dynamical Differences from Quantum State Preparation in a Bose-Hubbard Trimer. Physical Review Letters, 2018, 120, 230406.	2.9	3
11	Emergent Non-Eulerian Hydrodynamics of Quantum Vortices in Two Dimensions. Physical Review Letters, 2017, 119, 185301.	2.9	24
12	Quantum-correlated twin-atom laser from a Bose-Hubbard system. Physical Review A, 2017, 95, .	1.0	7
13	Enstrophy Cascade in Decaying Two-Dimensional Quantum Turbulence. Physical Review Letters, 2017, 119, 184502.	2.9	21
14	Theory of the vortex-clustering transition in a confined two-dimensional quantum fluid. Physical Review A, 2016, 94, .	1.0	27
15	Reservoir interactions of a vortex in a trapped three-dimensional Bose-Einstein condensate. Physical Review A, 2016, 93, .	1.0	9
16	Brownian motion of a matter-wave bright soliton moving through a thermal cloud of distinct atoms. Physical Review A, 2016, 93, .	1.0	9
17	Reservoir interactions during Bose-Einstein condensation: Modified critical scaling in the Kibble-Zurek mechanism of defect formation. Physical Review A, 2015, 92, .	1.0	9
18	Low-dimensional stochastic projected Gross-Pitaevskii equation. Physical Review A, 2015, 92, .	1.0	11

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19	Spectral energy transport in two-dimensional quantum vortex dynamics. Physical Review A, 2015, 91, .	1.0	46
20	Coherence and linewidth of a continuously pumped atom laser at finite temperature. Physical Review A, 2015, 92, .	1.0	4
21	Oscillons in coupled Bose-Einstein condensates. Physical Review A, 2015, 91, .	1.0	17
22	Quantum ultracold atomtronics. Physical Review A, 2015, 91, .	1.0	14
23	ldentifying a Superfluid Reynolds Number via Dynamical Similarity. Physical Review Letters, 2015, 114, 155302.	2.9	58
24	Stochastic projected Gross-Pitaevskii equation for spinor and multicomponent condensates. Physical Review A, 2014, 90, .	1.0	26
25	Signatures of coherent vortex structures in a disordered two-dimensional quantum fluid. Physical Review A, 2014, 89, .	1.0	33
26	Dynamic and energetic stabilization of persistent currents in Bose-Einstein condensates. Physical Review A, 2014, 89, .	1.0	10
27	Numerical method for the stochastic projected Gross-Pitaevskii equation. Physical Review E, 2014, 89, 013302.	0.8	14
28	Onsager-Kraichnan Condensation in Decaying Two-Dimensional Quantum Turbulence. Physical Review Letters, 2014, 112, 145301.	2.9	86
29	Characteristics of Two-Dimensional Quantum Turbulence in a Compressible Superfluid. Physical Review Letters, 2013, 111, 235301.	2.9	141
30	C-Field Methods for Non-Equilibrium Bose Gases. Cold Atoms, 2013, , 163-175.	0.3	1
31	Kibble-Zurek Scaling and its Breakdown for Spontaneous Generation of Josephson Vortices in Bose-Einstein Condensates. Physical Review Letters, 2013, 110, 215302.	2.9	52
32	Inverse Energy Cascade in Forced Two-Dimensional Quantum Turbulence. Physical Review Letters, 2013, 110, 104501.	2.9	101
33	Persistent-current formation in a high-temperature Bose-Einstein condensate: An experimental test for classical-field theory. Physical Review A, 2013, 88, .	1.0	31
34	Energy Spectra of Vortex Distributions in Two-Dimensional Quantum Turbulence. Physical Review X, 2012, 2, .	2.8	89
35	Classical and quantum regimes of two-dimensional turbulence in trapped Bose-Einstein condensates. Physical Review A, 2012, 86, .	1.0	62
36	Stochastic projected Gross-Pitaevskii equation. Physical Review A, 2012, 86, .	1.0	36

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37	Quantum Tunneling of a Vortex between Two Pinning Potentials. Physical Review Letters, 2012, 108, 015301.	2.9	11
38	Suppression of Kelvon-induced decay of quantized vortices in oblate Bose-Einstein condensates. Physical Review A, 2011, 84, .	1.0	52
39	Dark soliton decay in a Bose-Einstein condensate. , 2011, , .		0
40	Two-dimensional quantum turbulence in Bose-Einstein condensates. , 2011, , .		0
41	Suppression of Kelvon-induced decay of quantized vortices in trapped Bose-Einstein Condensates. , 2011, , .		0
42	Finite Temperature Theory for Novel Cold Gas Systems. , 2011, , .		0
43	Geometric scale invariance as a route to macroscopic degeneracy: Loading a toroidal trap with a Bose or Fermi gas. Physical Review A, 2010, 82, .	1.0	3
44	Quadripartite continuous-variable entanglement via quadruply concurrent down-conversion. Physical Review A, 2010, 81, .	1.0	38
45	Nonequilibrium dynamics of vortex arrest in a finite-temperature Bose-Einstein condensate. Physical Review A, 2010, 81, .	1.0	10
46	Analysis of a continuous-variable quadripartite cluster state from a single optical parametric oscillator. Physical Review A, 2010, 82, .	1.0	10
47	Observation of Vortex Dipoles in an Oblate Bose-Einstein Condensate. Physical Review Letters, 2010, 104, 160401.	2.9	326
48	Decay of a quantum vortex: Test of nonequilibrium theories for warm Bose-Einstein condensates. Physical Review A, 2010, 81, .	1.0	59
49	Numerical method for evolving the dipolar projected Gross-Pitaevskii equation. Physical Review E, 2009, 80, 016703.	0.8	18
50	Scale-invariant thermodynamics of a toroidally trapped Bose gas. Physical Review A, 2009, 79, .	1.0	4
51	Numerical representation of quantum states in the positive-P and Wigner representations. Optics Communications, 2009, 282, 3924-3929.	1.0	65
52	Finite-temperature dynamics of a single vortex in a Bose-Einstein condensate: Equilibrium precession and rotational symmetry breaking. Physical Review A, 2009, 80, .	1.0	18
53	From squeezed atom lasers to teleportation of massive articles. European Physical Journal: Special Topics, 2008, 160, 331-342.	1.2	6
54	Spontaneous vortices in the formation of Bose–Einstein condensates. Nature, 2008, 455, 948-951.	13.7	440

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55	Bose-Einstein condensation from a rotating thermal cloud: Vortex nucleation and lattice formation. Physical Review A, 2008, 77, .	1.0	79
56	Dynamics and statistical mechanics of ultra-cold Bose gases using c-field techniques. Advances in Physics, 2008, 57, 363-455.	35.9	457
57	Dynamical thermalization and vortex formation in stirred two-dimensional Bose-Einstein condensates. Physical Review A, 2008, 78, .	1.0	24
58	Bright bichromatic entanglement and quantum dynamics of sum frequency generation. Physical Review A, 2008, 77, .	1.0	37
59	Quantum depletion of collapsing Bose-Einstein condensates. Physical Review A, 2007, 75, .	1.0	41
60	Raman scheme to measure the quantum statistics of an atom laser beam. Physical Review A, 2007, 76, .	1.0	9
61	Tripartite entanglement and threshold properties of coupled intracavity down-conversion and sum-frequency generation. Physical Review A, 2007, 76, .	1.0	44
62	Quantum de Laval nozzle: Stability and quantum dynamics of sonic horizons in a toroidally trapped Bose gas containing a superflow. Physical Review A, 2007, 76, .	1.0	39
63	Quantum statistical measurements of an atom laser beam. Nuclear Physics A, 2007, 790, 733c-736c.	0.6	1
64	Continuous variable tripartite entanglement and Einstein-Podolsky-Rosen correlations from triple nonlinearities. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2007, 103, 187-192.	0.2	0
65	Raman schemes for phase sensitive measurement and teleportation of massive particles. , 2007, , .		Ο
66	Super-Radiant Rayleigh Scattering off a Condensate in an Optical Cavity. , 2007, , .		0
67	Coherence Properties of a Continuously Pumped Atom Laser at Finite Temperature. , 2007, , .		Ο
68	Spontaneous Vortex Formation During the Growth of a Bose-Einstein Condensate. , 2007, , .		0
69	CV tripartite entanglement from coupled nonlinearities. , 2007, , .		Ο
70	Continuous variable tripartite entanglement and Einstein–Podolsky–Rosen correlations from triple nonlinearities. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 2515-2533.	0.6	24
71	Continuous variable tripartite entanglement from twin nonlinearities. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 127-143.	0.6	39
72	Three-body recombination of ultracold Bose gases using the truncated Wigner method. Physical Review A, 2006, 73, .	1.0	35

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73	Asymmetric polychromatic tripartite entanglement from interlinkedχ(2)parametric interactions. Physical Review A, 2006, 74, .	1.0	58
74	Phase-space analysis of bosonic spontaneous emission. Optics Communications, 2005, 254, 271-281.	1.0	9
75	Bright tripartite entanglement in triply concurrent parametric oscillation. Physical Review A, 2005, 72,	1.0	73
76	Properties of the stochastic Gross–Pitaevskii equation: finite temperature Ehrenfest relations and the optimal plane wave representation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 4259-4280.	0.6	35
77	Multimode Squeezing and Entanglement with Concurrent Nonlinearities. , 2005, , .		1
78	Fock-state dynamics in Raman photoassociation of Bose-Einstein condensates. Physical Review A, 2004, 70, .	1.0	16
79	GROWTH AND STABILIZATION OF VORTEX LATTICES IN A BOSE-EINSTEIN CONDENSATE. , 2004, , .		0
80	Steady-state quantum statistics of a non-Markovian atom laser. II. Physical Review A, 2003, 68, .	1.0	7
81	Theory of Ramsey spectroscopy and anomalous segregation in ultracold rubidium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 4299-4323.	0.6	12
82	Theory of the cold collision frequency shift in 1S-2S spectroscopy of Bose-Einstein-condensed and non-condensed hydrogen. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 4673-4687.	0.6	2
83	Analysis ofg2for the cold collision frequency shift in the hydrogen condensate experiments. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 4663-4672.	0.6	6