

P Blair Blakie

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

110
papers

2,697
citations

28
h-index

46
g-index

115
ext. papers

3,119
ext. citations

3.3
avg, IF

5.68
L-index

#	Paper	IF	Citations
110	Propagating Ferrodark Solitons in a Superfluid: Exact Solutions and Anomalous Dynamics.. <i>Physical Review Letters</i> , 2022 , 128, 125301	7.4	0
109	Numerical calculation of dipolar-quantum-droplet stationary states. <i>Physical Review Research</i> , 2021 , 3,	3.9	4
108	Dark-soliton-like magnetic domain walls in a two-dimensional ferromagnetic superfluid. <i>Physical Review Research</i> , 2021 , 3,	3.9	4
107	Miscibility and stability of dipolar bosonic mixtures. <i>Physical Review A</i> , 2021 , 103,	2.6	2
106	Quantum Droplet States of a Binary Magnetic Gas. <i>Physical Review Letters</i> , 2021 , 126, 025302	7.4	16
105	Damped point-vortex model for polar-core spin vortices in a ferromagnetic spin-1 Bose-Einstein condensate. <i>Physical Review Research</i> , 2021 , 3,	3.9	2
104	Excitations and number fluctuations in an elongated dipolar Bose-Einstein condensate. <i>Physical Review A</i> , 2020 , 102,	2.6	4
103	Rotational tuning of the dipole-dipole interaction in a Bose gas of magnetic atoms. <i>Physical Review A</i> , 2020 , 101,	2.6	4
102	Supersolidity in an elongated dipolar condensate. <i>Physical Review Research</i> , 2020 , 2,	3.9	6
101	Variational theory for the ground state and collective excitations of an elongated dipolar condensate. <i>Communications in Theoretical Physics</i> , 2020 , 72, 085501	2.4	8
100	Properties of a nematic spin vortex in an antiferromagnetic spin-1 Bose-Einstein condensate. <i>Physical Review A</i> , 2020 , 102,	2.6	4
99	Dynamics of an itinerant spin-3 atomic dipolar gas in an optical lattice. <i>Physical Review A</i> , 2019 , 100,	2.6	3
98	Violation of single-length-scaling dynamics via spin vortices in an isolated spin-1 Bose gas. <i>Physical Review A</i> , 2019 , 100,	2.6	5
97	Static-response theory and the roton-maxon spectrum of a flattened dipolar Bose-Einstein condensate. <i>Physical Review A</i> , 2019 , 100,	2.6	1
96	Droplet Crystal Ground States of a Dipolar Bose Gas. <i>Physical Review Letters</i> , 2018 , 121, 195301	7.4	40
95	Dynamics of a quenched spin-1 antiferromagnetic condensate in a harmonic trap. <i>Physical Review A</i> , 2018 , 98,	2.6	7
94	Excitations of a vortex line in an elongated dipolar condensate. <i>Physical Review A</i> , 2018 , 98,	2.6	5

93	Solving the spin-2 Gross-Pitaevskii equation using exact nonlinear dynamics and symplectic composition. <i>Physical Review E</i> , 2017 , 95, 013311	2.4	1
92	Nematic ordering dynamics of an antiferromagnetic spin-1 condensate. <i>Physical Review A</i> , 2017 , 96,	2.6	17
91	Different growth rates for spin and superfluid order in a quenched spinor condensate. <i>Physical Review A</i> , 2017 , 95,	2.6	17
90	Domain percolation in a quenched ferromagnetic spinor condensate. <i>New Journal of Physics</i> , 2017 , 19, 095003	2.9	4
89	Coarsening Dynamics of an Isotropic Ferromagnetic Superfluid. <i>Physical Review Letters</i> , 2017 , 119, 255301	7.4	14
88	Collective Excitations of Self-Bound Droplets of a Dipolar Quantum Fluid. <i>Physical Review Letters</i> , 2017 , 119, 255302	7.4	39
87	Coarsening and thermalization properties of a quenched ferromagnetic spin-1 condensate. <i>Physical Review A</i> , 2016 , 94,	2.6	24
86	Ground-state phase diagram of a dipolar condensate with quantum fluctuations. <i>Physical Review A</i> , 2016 , 94,	2.6	95
85	Spin-dependent Bragg spectroscopy of a spinor Bose gas. <i>Physical Review A</i> , 2016 , 93,	2.6	3
84	Properties of a dipolar condensate with three-body interactions. <i>Physical Review A</i> , 2016 , 93,	2.6	34
83	Efficient and accurate methods for solving the time-dependent spin-1 Gross-Pitaevskii equation. <i>Physical Review E</i> , 2016 , 93, 053309	2.4	12
82	Universal Coarsening Dynamics of a Quenched Ferromagnetic Spin-1 Condensate. <i>Physical Review Letters</i> , 2016 , 116, 025301	7.4	43
81	Multiple scattering dynamics of fermions at an isolated p-wave resonance. <i>Nature Communications</i> , 2016 , 7, 12069	17.4	11
80	Dynamics of polar-core spin vortices in a ferromagnetic spin-1 Bose-Einstein condensate. <i>Physical Review A</i> , 2016 , 94,	2.6	13
79	Self-bound dipolar droplet: A localized matter wave in free space. <i>Physical Review A</i> , 2016 , 94,	2.6	108
78	A general theory of flattened dipolar condensates. <i>New Journal of Physics</i> , 2015 , 17, 033028	2.9	16
77	Crystallization of a dilute atomic dipolar condensate. <i>Physical Review A</i> , 2015 , 92,	2.6	39
76	Stability of a trapped dipolar quantum gas. <i>Physical Review A</i> , 2015 , 91,	2.6	5

75	Numerical method for the stochastic projected Gross-Pitaevskii equation. <i>Physical Review E</i> , 2014 , 89, 013302	2.4	8
74	Thermally activated local collapse of a flattened dipolar condensate. <i>Physical Review A</i> , 2014 , 90,	2.6	5
73	Static structure factors for a spin-1 Bose-Einstein condensate. <i>Physical Review A</i> , 2014 , 89,	2.6	12
72	Fluctuations of spinor Bose-Einstein condensates. <i>Physical Review A</i> , 2014 , 90,	2.6	5
71	Stochastic projected Gross-Pitaevskii equation for spinor and multicomponent condensates. <i>Physical Review A</i> , 2014 , 90,	2.6	18
70	Number fluctuations of a dipolar condensate: anisotropy and slow approach to the thermodynamic regime. <i>Physical Review Letters</i> , 2014 , 113, 265301	7.4	5
69	Depletion and fluctuations of a trapped dipolar Bose-Einstein condensate in the roton regime. <i>Physical Review A</i> , 2013 , 88,	2.6	25
68	Table-top cosmology with Bose-Einstein condensates. <i>Annalen Der Physik</i> , 2013 , 525, A163-A164	2.6	1
67	Fingerprinting rotons in a dipolar condensate: super-Poissonian peak in the atom-number fluctuations. <i>Physical Review Letters</i> , 2013 , 110, 265302	7.4	33
66	C-Field Methods for Non-Equilibrium Bose Gases. <i>Cold Atoms</i> , 2013 , 163-175		
65	Roton excitations in a trapped dipolar Bose-Einstein condensate. <i>Physical Review A</i> , 2013 , 88,	2.6	22
64	Finite-resolution fluctuation measurements of a trapped Bose-Einstein condensate. <i>Physical Review A</i> , 2013 , 88,	2.6	3
63	Roton spectroscopy in a harmonically trapped dipolar Bose-Einstein condensate. <i>Physical Review A</i> , 2012 , 86,	2.6	50
62	Yang-Yang thermometry and momentum distribution of a trapped one-dimensional Bose gas. <i>Physical Review A</i> , 2012 , 85,	2.6	37
61	Stability and structure of an anisotropically trapped dipolar Bose-Einstein condensate: Angular and linear rotons. <i>Physical Review A</i> , 2012 , 86,	2.6	27
60	Finite-temperature trapped dipolar Bose gas. <i>Physical Review A</i> , 2012 , 86,	2.6	21
59	Stochastic projected Gross-Pitaevskii equation. <i>Physical Review A</i> , 2012 , 86,	2.6	28
58	Finite-temperature phase diagram of a spin-1 Bose gas. <i>Physical Review A</i> , 2012 , 85,	2.6	8

57	Local exchange theory for trapped dipolar gases. <i>Physical Review A</i> , 2012 , 86,	2.6	4
56	Magnetostriction and exchange effects in trapped dipolar Bose and Fermi gases. <i>Physical Review A</i> , 2012 , 86,	2.6	10
55	Suppression of Kelvin-induced decay of quantized vortices in oblate Bose-Einstein condensates. <i>Physical Review A</i> , 2011 , 84,	2.6	47
54	Direct simulation Monte Carlo method for cold-atom dynamics: Classical Boltzmann equation in the quantum collision regime. <i>Physical Review A</i> , 2011 , 84,	2.6	21
53	Finite-temperature stability of a trapped dipolar Bose gas. <i>Physical Review A</i> , 2011 , 83,	2.6	16
52	Thermally induced coherence in a Mott insulator of bosonic atoms. <i>Physical Review A</i> , 2011 , 83,	2.6	5
51	Temporal coherence, anomalous moments, and pairing correlations in the classical-field description of a degenerate Bose gas. <i>Physical Review A</i> , 2010 , 82,	2.6	10
50	Vortex pairing in two-dimensional Bose gases. <i>Physical Review A</i> , 2010 , 81,	2.6	38
49	Decay of a quantum vortex: Test of nonequilibrium theories for warm Bose-Einstein condensates. <i>Physical Review A</i> , 2010 , 81,	2.6	53
48	Geometric scale invariance as a route to macroscopic degeneracy: Loading a toroidal trap with a Bose or Fermi gas. <i>Physical Review A</i> , 2010 , 82,	2.6	2
47	Thermodynamics and coherence of a trapped dipolar Fermi gas. <i>Physical Review A</i> , 2010 , 82,	2.6	18
46	Numerical method for evolving the dipolar projected Gross-Pitaevskii equation. <i>Physical Review E</i> , 2009 , 80, 016703	2.4	18
45	Critical properties of a trapped interacting Bose gas. <i>Physical Review A</i> , 2009 , 79,	2.6	26
44	Critical temperature of a Bose gas in an optical lattice. <i>Physical Review A</i> , 2009 , 80,	2.6	10
43	Finite-temperature theory of superfluid bosons in optical lattices. <i>Physical Review A</i> , 2009 , 80,	2.6	19
42	Transition region properties of a trapped quasi-two-dimensional degenerate Bose gas. <i>Physical Review A</i> , 2009 , 80,	2.6	10
41	Quantitative test of the mean-field description of a trapped two-dimensional Bose gas. <i>Physical Review A</i> , 2009 , 80,	2.6	7
40	Projected Gross-Pitaevskii equation theory of finite-temperature collective modes for a trapped Bose gas. <i>Physical Review A</i> , 2009 , 79,	2.6	16

39	Adiabatic cooling of a tunable Bose-Fermi mixture in an optical lattice. <i>Physical Review A</i> , 2009 , 79,	2.6	4
38	Quasicondensation and coherence in the quasi-two-dimensional trapped Bose gas. <i>Physical Review A</i> , 2009 , 79,	2.6	48
37	Analysis of the Holzmanna-Chevallier-Krauth theory for the trapped quasi-two-dimensional Bose gas. <i>Physical Review A</i> , 2009 , 79,	2.6	13
36	Statistical mechanics of a Feshbach-coupled Bose-Fermi gas in an optical lattice. <i>Physical Review A</i> , 2009 , 79,	2.6	2
35	Superfluid to Mott insulator quantum phase transition in a 2D permanent magnetic lattice. <i>European Physical Journal B</i> , 2009 , 70, 305-310	1.2	5
34	Dynamics and statistical mechanics of ultra-cold Bose gases using c-field techniques. <i>Advances in Physics</i> , 2008 , 57, 363-455	18.4	360
33	Two-point correlations of a trapped interacting Bose gas at finite temperature. <i>Physical Review A</i> , 2008 , 77,	2.6	21
32	Superfluidity of an interacting trapped quasi-two-dimensional Bose gas. <i>Physical Review A</i> , 2008 , 77,	2.6	36
31	Dynamical thermalization and vortex formation in stirred two-dimensional Bose-Einstein condensates. <i>Physical Review A</i> , 2008 , 78,	2.6	23
30	Dynamical instabilities of Bose-Einstein condensates at the band edge in one-dimensional optical lattices. <i>Physical Review A</i> , 2008 , 77,	2.6	24
29	Theory of correlations between ultracold bosons released from an optical lattice. <i>Physical Review A</i> , 2008 , 78,	2.6	27
28	Numerical method for evolving the projected Gross-Pitaevskii equation. <i>Physical Review E</i> , 2008 , 78, 026704	2.4	28
27	Thermodynamics of quantum degenerate gases in optical lattices. <i>Laser Physics</i> , 2007 , 17, 198-204	1.2	7
26	Classical region of a trapped Bose gas. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007 , 40, 2043-2053	1.3	23
25	Calorimetry of Bose-Einstein condensates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007 , 40, 3273-3282	1.3	6
24	Quantum depletion of collapsing Bose-Einstein condensates. <i>Physical Review A</i> , 2007 , 75,	2.6	36
23	Bose-Einstein condensation in an optical lattice. <i>Physical Review A</i> , 2007 , 76,	2.6	25
22	Degenerate Fermi gas in a combined harmonic-lattice potential. <i>Physical Review A</i> , 2007 , 75,	2.6	28

21	Mean-field phase diagram of cold lattice bosons in disordered potentials. <i>Physical Review A</i> , 2007 , 76,	2.6	41
20	Raman spectroscopy of Mott insulator states in optical lattices. <i>New Journal of Physics</i> , 2006 , 8, 157-157	2.9	8
19	Finite-temperature treatment of ultracold atoms in a one-dimensional optical lattice. <i>Physical Review A</i> , 2006 , 73,	2.6	13
18	Critical temperature of a trapped Bose gas: comparison of theory and experiment. <i>Physical Review Letters</i> , 2006 , 96, 060404	7.4	66
17	PHASE TRANSITIONS IN ULTRA-COLD TWO-DIMENSIONAL BOSE GASES. <i>International Journal of Modern Physics B</i> , 2006 , 20, 5224-5228	1.1	6
16	Thermal activation of vortex-antivortex pairs in quasi-two-dimensional Bose-Einstein condensates. <i>Physical Review Letters</i> , 2006 , 96, 020404	7.4	82
15	Projected Gross-Pitaevskii equation for harmonically confined Bose gases at finite temperature. <i>Physical Review A</i> , 2005 , 72,	2.6	81
14	Properties of the stochastic Gross-Pitaevskii equation: finite temperature Ehrenfest relations and the optimal plane wave representation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005 , 38, 4259-4280	1.3	30
13	Calculation of the microcanonical temperature for the classical Bose field. <i>Journal of Physics A</i> , 2005 , 38, 10259-10271		24
12	Adiabatic cooling of fermions in an optical lattice. <i>Physical Review A</i> , 2005 , 71,	2.6	28
11	Bragg spectroscopy of ultracold atoms loaded in an optical lattice. <i>Physical Review A</i> , 2005 , 72,	2.6	68
10	Adiabatic loading of bosons into optical lattices. <i>Physical Review A</i> , 2004 , 69,	2.6	49
9	Wannier states and Bose-Hubbard parameters for 2D optical lattices. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004 , 37, 1391-1404	1.3	43
8	Decay and revival of phase coherence of a Bose-Einstein condensate in a one-dimensional lattice. <i>Physical Review A</i> , 2003 , 67,	2.6	22
7	Dynamics of a period-3 pattern-loaded Bose-Einstein condensate in an optical lattice. <i>Physical Review A</i> , 2003 , 67,	2.6	7
6	Output coupling from a trapped Bose-Einstein condensate in a vortex state. <i>Physical Review A</i> , 2003 , 68,	2.6	2
5	Theory of coherent Bragg spectroscopy of a trapped Bose-Einstein condensate. <i>Physical Review A</i> , 2002 , 65,	2.6	60
4	Spatially selective Bragg scattering: a signature for vortices in Bose-Einstein condensates. <i>Physical Review Letters</i> , 2001 , 86, 3930-3	7.4	19

- 3 Mean-field treatment of Bragg scattering from a Bose-Einstein condensate. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2000**, 33, 3961-3982 1.3 32
- 2 Three-dimensional vortex dynamics in Bose-Einstein condensates. *Physical Review A*, **2000**, 62, 2.6 32
- 1 Dressed states of a two component Bose-Einstein condensate. *Journal of Optics B: Quantum and Semiclassical Optics*, **1999**, 1, 378-382 18