

Nick P Proukakis

List of Publications by Citations

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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.

82
papers

2,145
citations

28
h-index

43
g-index

86
ext. papers

2,442
ext. citations

3.1
avg. IF

5.01
L-index

#	Paper	IF	Citations
82	Finite-temperature models of Bose-Einstein condensation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008 , 41, 203002	1.3	196
81	Low dimensional Bose gases. <i>Physical Review A</i> , 2002 , 66,	2.6	96
80	Microscopic treatment of binary interactions in the nonequilibrium dynamics of partially Bose-condensed trapped gases. <i>Physical Review A</i> , 1998 , 57, 1230-1247	2.6	89
79	Nonclassical velocity statistics in a turbulent atomic Bose-Einstein condensate. <i>Physical Review Letters</i> , 2010 , 104, 075301	7.4	88
78	Gapless mean-field theory of Bose-Einstein condensates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2000 , 33, 3825-3846	1.3	74
77	Finite-temperature vortex dynamics in Bose-Einstein condensates. <i>Physical Review A</i> , 2009 , 79,	2.6	71
76	Soliton-sound interactions in quasi-one-dimensional Bose-Einstein condensates. <i>Physical Review Letters</i> , 2003 , 90, 220401	7.4	63
75	Dark-soliton dynamics in Bose-Einstein condensates at finite temperature. <i>Physical Review A</i> , 2007 , 75,	2.6	62
74	Generalized Mean Fields for Trapped Atomic Bose-Einstein Condensates. <i>Journal of Research of the National Institute of Standards and Technology</i> , 1996 , 101, 457-469	1.3	61
73	Phase separation and dynamics of two-component Bose-Einstein condensates. <i>Physical Review A</i> , 2016 , 94,	2.6	55
72	Matter-wave dark solitons: stochastic versus analytical results. <i>Physical Review Letters</i> , 2010 , 104, 174101	7.4	54
71	Controlled vortex-sound interactions in atomic Bose-Einstein condensates. <i>Physical Review Letters</i> , 2004 , 92, 160403	7.4	49
70	Comparison of gapless mean-field theories for trapped Bose-Einstein condensates. <i>Physical Review A</i> , 1998 , 58, 2435-2445	2.6	49
69	Quasicondensate growth on an atom chip. <i>Physical Review A</i> , 2006 , 73,	2.6	47
68	Creation and characterization of vortex clusters in atomic Bose-Einstein condensates. <i>Physical Review A</i> , 2012 , 86,	2.6	45
67	The stochastic Gross-Pitaevskii equation and some applications. <i>Laser Physics</i> , 2009 , 19, 558-570	1.2	44
66	Analogies between dark solitons in atomic Bose-Einstein condensates and optical systems. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2004 , 6, S380-S391		44

65	Modeling quantum fluid dynamics at nonzero temperatures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111 Suppl 1, 4675-82	11.5	42
64	Dynamics of shallow dark solitons in a trapped gas of impenetrable bosons. <i>Physical Review A</i> , 2004 , 70,	2.6	41
63	Parametric driving of dark solitons in atomic Bose-Einstein condensates. <i>Physical Review Letters</i> , 2004 , 93, 130408	7.4	41
62	Comparison between microscopic methods for finite-temperature Bose gases. <i>Physical Review A</i> , 2011 , 83,	2.6	38
61	Equilibrium solutions for immiscible two-species Bose-Einstein condensates in perturbed harmonic traps. <i>Physical Review A</i> , 2013 , 87,	2.6	35
60	Deformation of dark solitons in inhomogeneous Bose-Einstein condensates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003 , 36, 2891-2910	1.3	34
59	Dynamical instability of a dark soliton in a quasi-one-dimensional Bose-Einstein condensate perturbed by an optical lattice. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004 , 37, S175-S185	1.3	34
58	Observable vortex properties in finite-temperature Bose gases. <i>Physical Review A</i> , 2013 , 87,	2.6	31
57	Dynamical Critical Exponents in Driven-Dissipative Quantum Systems. <i>Physical Review Letters</i> , 2018 , 121, 095302	7.4	30
56	Vortex reconnections in atomic condensates at finite temperature. <i>Physical Review A</i> , 2014 , 90,	2.6	29
55	Controllable nonlocal interactions between dark solitons in dipolar condensates. <i>Physical Review A</i> , 2015 , 92,	2.6	28
54	Ab initio methods for finite-temperature two-dimensional Bose gases. <i>Physical Review A</i> , 2012 , 86,	2.6	26
53	Dark soliton decay due to trap anharmonicity in atomic Bose-Einstein condensates. <i>Physical Review A</i> , 2010 , 81,	2.6	26
52	Many-body physics in the classical-field description of a degenerate Bose gas. <i>Physical Review A</i> , 2011 , 84,	2.6	26
51	Exploring vortex dynamics in the presence of dissipation: Analytical and numerical results. <i>Physical Review A</i> , 2014 , 89,	2.6	25
50	Dimensional and temperature crossover in trapped Bose gases. <i>Physical Review A</i> , 2003 , 68,	2.6	25
49	Stochastic growth dynamics and composite defects in quenched immiscible binary condensates. <i>Physical Review A</i> , 2016 , 93,	2.6	23
48	Spatial correlation functions of one-dimensional Bose gases at equilibrium. <i>Physical Review A</i> , 2006 , 74,	2.6	22

47	Quantitative study of quasi-one-dimensional Bose gas experiments via the stochastic Gross-Pitaevskii equation. <i>Physical Review A</i> , 2011 , 84,	2.6	21
46	Self-consistent quantum kinetics of condensate and non-condensate via a coupled equation of motion formalism. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001 , 34, 4737-4755	1.3	21
45	Dynamical equilibration across a quenched phase transition in a trapped quantum gas. <i>Communications Physics</i> , 2018 , 1,	5.4	20
44	Matter Wave Solitons at Finite Temperatures. <i>Journal of Low Temperature Physics</i> , 2007 , 148, 387-391	1.3	20
43	Collisionless Sound in a Uniform Two-Dimensional Bose Gas. <i>Physical Review Letters</i> , 2018 , 121, 145302	7.4	19
42	Critical Transport and Vortex Dynamics in a Thin Atomic Josephson Junction. <i>Physical Review Letters</i> , 2020 , 124, 045301	7.4	18
41	Josephson tunnelling of a phase-imprinted Bose-Einstein condensate in a time-dependent double-well potential. <i>New Journal of Physics</i> , 2004 , 6, 42-42	2.9	17
40	Phase coherence in quasicondensate experiments: An ab initio analysis via the stochastic Gross-Pitaevskii equation. <i>Physical Review A</i> , 2012 , 86,	2.6	15
39	Probing quasi-integrability of the Gross-Pitaevskii equation in a harmonic-oscillator potential. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018 , 51, 205303	1.3	13
38	Roadmap on Atomtronics: State of the art and perspective. <i>AVS Quantum Science</i> , 2021 , 3, 039201	10.3	13
37	Engineering dark solitary waves in ring-trap Bose-Einstein condensates. <i>New Journal of Physics</i> , 2016 , 18, 025004	2.9	12
36	Coherent cross talk and parametric driving of matter-wave vortices. <i>Physical Review A</i> , 2012 , 86,	2.6	11
35	Kinetic model of trapped finite-temperature binary condensates. <i>Physical Review A</i> , 2015 , 91,	2.6	10
34	Evaporative cooling of cold atoms at surfaces. <i>Physical Review A</i> , 2014 , 90,	2.6	10
33	Long-range sound-mediated dark-soliton interactions in trapped atomic condensates. <i>Physical Review A</i> , 2011 , 83,	2.6	10
32	Interplay of density and phase fluctuations in ultracold one-dimensional Bose gases. <i>Physical Review A</i> , 2006 , 73,	2.6	10
31	Tunnelling induced collapse of an atomic Bose-Einstein condensate in a double-well potential. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004 , 37, 3681-3690	1.3	10
30	Kibble-Zurek Mechanism in Driven Dissipative Systems Crossing a Nonequilibrium Phase Transition. <i>Physical Review Letters</i> , 2020 , 125, 095301	7.4	10

29	Time-of-flight expansion of binary Bose-Einstein condensates at finite temperature. <i>New Journal of Physics</i> , 2018 , 20, 053004	2.9	9
28	A Phenomenological Model of the Growth of Two-Species Atomic Bose-Einstein Condensates. <i>Journal of Physics: Conference Series</i> , 2014 , 497, 012029	0.3	9
27	Immiscible and miscible states in binary condensates in the ring geometry. <i>New Journal of Physics</i> , 2019 , 21, 073058	2.9	8
26	Isotropic vortex tangles in trapped atomic Bose-Einstein condensates via laser stirring. <i>Physical Review A</i> , 2014 , 89,	2.6	8
25	Theory of Bose-Einstein condensation for trapped atoms. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1997 , 355, 2235-2245	3	8
24	Quench dynamics of an ultracold two-dimensional Bose gas. <i>Physical Review A</i> , 2019 , 100,	2.6	8
23	Quantum turbulence in atomic Bose-Einstein condensates. <i>Journal of Physics: Conference Series</i> , 2014 , 544, 012023	0.3	7
22	Crossover dark soliton dynamics in ultracold one-dimensional Bose gases. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007 , 364, 129-134	2.3	7
21	Vortex scattering by impurities in a Bose-Einstein condensate. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017 , 50, 115003	1.3	6
20	Reservoir interactions of a vortex in a trapped three-dimensional Bose-Einstein condensate. <i>Physical Review A</i> , 2016 , 93,	2.6	6
19	Effects of interatomic collisions on atom-laser outcoupling. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003 , 36, 2797-2816	1.3	6
18	Cross-over to quasi-condensation: mean-field theories and beyond. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017 , 50, 114002	1.3	5
17	Nonequilibrium kinetic theory for trapped binary condensates. <i>Physical Review A</i> , 2015 , 92,	2.6	5
16	Topological stirring of two-dimensional atomic Bose-Einstein condensates. <i>Journal of Physics: Conference Series</i> , 2014 , 544, 012021	0.3	4
15	Kibble-Zurek dynamics in a trapped ultracold Bose gas. <i>Physical Review Research</i> , 2020 , 2,	3.9	4
14	Dynamical phase diagram of ultracold Josephson junctions. <i>New Journal of Physics</i> , 2020 , 22, 123006	2.9	4
13	Non-equilibrium atomic condensates and mixtures: collective modes, condensate growth and thermalisation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016 , 49, 214003	1.3	4
12	Persistent current formation in double-ring geometries. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020 , 53, 115301	1.3	4

11	Non-equilibrium Berezinskii-Kosterlitz-Thouless transition in driven-dissipative condensates (a). <i>Europhysics Letters</i> , 2021 , 133, 17002	1.6	4
10	Equilibration of a finite-temperature binary Bose gas formed by population transfer. <i>Physical Review A</i> , 2014 , 90,	2.6	3
9	Turbulence in a Bose-Einstein condensate. <i>Journal of Physics: Conference Series</i> , 2011 , 318, 062003	0.3	3
8	Selected Theoretical Comparisons for Bosons. <i>Cold Atoms</i> , 2013 , 261-286		2
7	Beyond Gross-Pitaevskii Mean-Field Theory 2008 , 353-373		1
6	Periodic quenches across the Berezinskii-Kosterlitz-Thouless phase transition. <i>Physical Review Research</i> , 2021 , 3,	3.9	1
5	The Stochastic GrossPitaevskii Methodology. <i>Cold Atoms</i> , 2013 , 177-189		
4	Introduction to Theoretical Modelling. <i>Cold Atoms</i> , 2013 , 63-83		
3	A Dynamical Self-Consistent Finite-Temperature Kinetic Theory: The ZNG Scheme. <i>Cold Atoms</i> , 2013 , 93-105		
2	Reconciling the Classical-Field Method with the Beliaev Broken-Symmetry Approach. <i>Cold Atoms</i> , 2013 , 299-312		
1	Ultracold Gases with Intrinsic Scale Invariance 168-186		