## Nick P Proukakis

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Finite-temperature models of Bose–Einstein condensation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 203002.	0.6	238
2	Low dimensional Bose gases. Physical Review A, 2002, 66, .	1.0	103
3	Nonclassical Velocity Statistics in a Turbulent Atomic Bose-Einstein Condensate. Physical Review Letters, 2010, 104, 075301.	2.9	98
4	Microscopic treatment of binary interactions in the nonequilibrium dynamics of partially Bose-condensed trapped gases. Physical Review A, 1998, 57, 1230-1247.	1.0	93
5	Roadmap on Atomtronics: State of the art and perspective. AVS Quantum Science, 2021, 3, .	1.8	87
6	Gapless mean-field theory of Bose-Einstein condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 3825-3846.	0.6	82
7	Phase separation and dynamics of two-component Bose-Einstein condensates. Physical Review A, 2016, 94, .	1.0	78
8	Finite-temperature vortex dynamics in Bose-Einstein condensates. Physical Review A, 2009, 79, .	1.0	76
9	Soliton-Sound Interactions in Quasi-One-Dimensional Bose-Einstein Condensates. Physical Review Letters, 2003, 90, 220401.	2.9	72
10	Dark-soliton dynamics in Bose-Einstein condensates at finite temperature. Physical Review A, 2007, 75, .	1.0	67
11	Generalized mean fields for trapped atomic Bose-Einstein condensates. Journal of Research of the National Institute of Standards and Technology, 1996, 101, 457.	0.4	64
12	Matter-Wave Dark Solitons: Stochastic versus Analytical Results. Physical Review Letters, 2010, 104, 174101.	2.9	61
13	Modeling quantum fluid dynamics at nonzero temperatures. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4675-4682.	3.3	61
14	Controlled Vortex-Sound Interactions in Atomic Bose-Einstein Condensates. Physical Review Letters, 2004, 92, 160403.	2.9	55
15	The stochastic Gross-Pitaevskii equation and some applications. Laser Physics, 2009, 19, 558-570.	0.6	54
16	Comparison of gapless mean-field theories for trapped Bose-Einstein condensates. Physical Review A, 1998, 58, 2435-2445.	1.0	50
17	Creation and characterization of vortex clusters in atomic Bose-Einstein condensates. Physical Review A, 2012, 86, .	1.0	50
18	Analogies between dark solitons in atomic Bose–Einstein condensates and optical systems. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, S380-S391.	1.4	48

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19	Quasicondensate growth on an atom chip. Physical Review A, 2006, 73, .	1.0	48
20	Dynamical Critical Exponents in Driven-Dissipative Quantum Systems. Physical Review Letters, 2018, 121, 095302.	2.9	46
21	Comparison between microscopic methods for finite-temperature Bose gases. Physical Review A, 2011, 83, .	1.0	45
22	Equilibrium solutions for immiscible two-species Bose-Einstein condensates in perturbed harmonic traps. Physical Review A, 2013, 87, .	1.0	44
23	Dynamics of shallow dark solitons in a trapped gas of impenetrable bosons. Physical Review A, 2004, 70, .	1.0	42
24	Parametric Driving of Dark Solitons in Atomic Bose-Einstein Condensates. Physical Review Letters, 2004, 93, 130408.	2.9	42
25	Dynamical equilibration across a quenched phase transition in a trapped quantum gas. Communications Physics, 2018, 1, .	2.0	42
26	Dynamical instability of a dark soliton in a quasi-one-dimensional Bose–Einstein condensate perturbed by an optical lattice. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, S175-S185.	0.6	37
27	Deformation of dark solitons in inhomogeneous Bose–Einstein condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 2891-2910.	0.6	36
28	Collisionless Sound in a Uniform Two-Dimensional Bose Gas. Physical Review Letters, 2018, 121, 145302.	2.9	35
29	Vortex reconnections in atomic condensates at finite temperature. Physical Review A, 2014, 90, .	1.0	34
30	Critical Transport and Vortex Dynamics in a Thin Atomic Josephson Junction. Physical Review Letters, 2020, 124, 045301.	2.9	34
31	Observable vortex properties in finite-temperature Bose gases. Physical Review A, 2013, 87, .	1.0	33
32	Controllable nonlocal interactions between dark solitons in dipolar condensates. Physical Review A, 2015, 92, .	1.0	33
33	Dark soliton decay due to trap anharmonicity in atomic Bose-Einstein condensates. Physical Review A, 2010, 81, .	1.0	32
34	Ab initiomethods for finite-temperature two-dimensional Bose gases. Physical Review A, 2012, 86, .	1.0	28
35	Exploring vortex dynamics in the presence of dissipation: Analytical and numerical results. Physical Review A, 2014, 89, .	1.0	28
36	Dimensional and temperature crossover in trapped Bose gases. Physical Review A, 2003, 68, .	1.0	27

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37	Many-body physics in the classical-field description of a degenerate Bose gas. Physical Review A, 2011, 84, .	1.0	27
38	Stochastic growth dynamics and composite defects in quenched immiscible binary condensates. Physical Review A, 2016, 93, .	1.0	26
39	Quantitative study of quasi-one-dimensional Bose gas experiments via the stochastic Gross-Pitaevskii equation. Physical Review A, 2011, 84, .	1.0	24
40	Kibble-Zurek Mechanism in Driven Dissipative Systems Crossing a Nonequilibrium Phase Transition. Physical Review Letters, 2020, 125, 095301.	2.9	24
41	Spatial correlation functions of one-dimensional Bose gases at equilibrium. Physical Review A, 2006, 74, .	1.0	23
42	Time-of-flight expansion of binary Bose–Einstein condensates at finite temperature. New Journal of Physics, 2018, 20, 053004.	1.2	22
43	Self-consistent quantum kinetics of condensate and non-condensate via a coupled equation of motion formalism. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 4737-4755.	0.6	21
44	Matter Wave Solitons at Finite Temperatures. Journal of Low Temperature Physics, 2007, 148, 387-391.	0.6	21
45	Josephson tunnelling of a phase-imprinted Bose–Einstein condensate in a time-dependent double-well potential. New Journal of Physics, 2004, 6, 42-42.	1.2	19
46	Engineering dark solitary waves in ring-trap Bose–Einstein condensates. New Journal of Physics, 2016, 18, 025004.	1.2	19
47	Kibble-Zurek dynamics in a trapped ultracold Bose gas. Physical Review Research, 2020, 2, .	1.3	18
48	Phase coherence in quasicondensate experiments: Anab initioanalysis via the stochastic Gross-Pitaevskii equation. Physical Review A, 2012, 86, .	1.0	17
49	Probing quasi-integrability of the Gross–Pitaevskii equation in a harmonic-oscillator potential. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 205303.	0.6	17
50	Immiscible and miscible states in binary condensates in the ring geometry. New Journal of Physics, 2019, 21, 073058.	1.2	15
51	Quench dynamics of an ultracold two-dimensional Bose gas. Physical Review A, 2019, 100, .	1.0	15
52	Coherent cross talk and parametric driving of matter-wave vortices. Physical Review A, 2012, 86, .	1.0	13
53	Persistent current formation in double-ring geometries. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 115301.	0.6	13
54	Non-equilibrium Berezinskii-Kosterlitz-Thouless transition in driven-dissipative condensates <sup>(a)</sup> . Europhysics Letters, 2021, 133, 17002.	0.7	13

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55	Evaporative cooling of cold atoms at surfaces. Physical Review A, 2014, 90, .	1.0	12
56	Tunnelling induced collapse of an atomic Bose–Einstein condensate in a double-well potential. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 3681-3690.	0.6	11
57	Interplay of density and phase fluctuations in ultracold one-dimensional Bose gases. Physical Review A, 2006, 73, .	1.0	11
58	Long-range sound-mediated dark-soliton interactions in trapped atomic condensates. Physical Review A, 2011, 83, .	1.0	11
59	Kinetic model of trapped finite-temperature binary condensates. Physical Review A, 2015, 91, .	1.0	11
60	Cross-over to quasi-condensation: mean-field theories and beyond. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 114002.	0.6	10
61	Dynamical phase diagram of ultracold Josephson junctions. New Journal of Physics, 2020, 22, 123006.	1.2	10
62	Theory of Bose–Einstein condensation for trapped atoms. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1997, 355, 2235-2245.	1.6	9
63	A Phenomenological Model of the Growth of Two-Species Atomic Bose-Einstein Condensates. Journal of Physics: Conference Series, 2014, 497, 012029.	0.3	9
64	Quantum turbulence in atomic Bose-Einstein condensates. Journal of Physics: Conference Series, 2014, 544, 012023.	0.3	9
65	Reservoir interactions of a vortex in a trapped three-dimensional Bose-Einstein condensate. Physical Review A, 2016, 93, .	1.0	9
66	Vortex scattering by impurities in a Bose–Einstein condensate. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 115003.	0.6	9
67	Crossover dark soliton dynamics in ultracold one-dimensional Bose gases. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 364, 129-134.	0.9	8
68	lsotropic vortex tangles in trapped atomic Bose-Einstein condensates via laser stirring. Physical Review A, 2014, 89, .	1.0	8
69	Effects of interatomic collisions on atom-laser outcoupling. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 2797-2816.	0.6	6
70	Non-equilibrium atomic condensates and mixtures: collective modes, condensate growth and thermalisation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 214003.	0.6	6
71	Dynamics of a degenerate Cs-Yb mixture with attractive interspecies interactions. Physical Review Research, 2021, 3, .	1.3	6
72	Nonequilibrium kinetic theory for trapped binary condensates. Physical Review A, 2015, 92, .	1.0	5

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73	Turbulence in a Bose-Einstein condensate. Journal of Physics: Conference Series, 2011, 318, 062003.	0.3	4
74	Topological stirring of two-dimensional atomic Bose-Einstein condensates. Journal of Physics: Conference Series, 2014, 544, 012021.	0.3	4
75	Crossover in the dynamical critical exponent of a quenched two-dimensional Bose gas. Physical Review Research, 2021, 3, .	1.3	4
76	Equilibration of a finite-temperature binary Bose gas formed by population transfer. Physical Review A, 2014, 90, .	1.0	3
77	Selected Theoretical Comparisons for Bosons. Cold Atoms, 2013, , 261-286.	0.3	2
78	Beyond Gross-Pitaevskii Mean-Field Theory. , 2008, , 353-373.		1
79	Periodic quenches across the Berezinskii-Kosterlitz-Thouless phase transition. Physical Review Research, 2021, 3, .	1.3	1
80	Ultracold Gases with Intrinsic Scale Invariance. , 0, , 168-186.		0
81	Interactions in trapped Bose-Einstein condensates. , 1999, , .		0
82	The Stochastic Gross–Pitaevskii Methodology. Cold Atoms, 2013, , 177-189.	0.3	0
83	Introduction to Theoretical Modelling. Cold Atoms, 2013, , 63-83.	0.3	0
84	A Dynamical Self-Consistent Finite-Temperature Kinetic Theory: The ZNG Scheme. Cold Atoms, 2013, , 93-105.	0.3	0
85	Reconciling the Classical-Field Method with the Beliaev Broken-Symmetry Approach. Cold Atoms, 2013, , 299-312.	0.3	0