Zoran Hadzibabic

List of Publications by Year
in descending order

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60	7,328	94269	149479
papers	citations	37 h-index	56 g-index

62	62	62	3674
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spin-Injection Spectroscopy of a Spin-Orbit Coupled Fermi Gas. Physical Review Letters, 2012, 109, 095302.	2.9	798
2	Observation of Bose-Einstein Condensation of Molecules. Physical Review Letters, 2003, 91, 250401.	2.9	784
3	Berezinskiiâ€“Kosterlitzâ€“Thouless crossover in a trapped atomic gas. Nature, 2006, 441, 1118-1121.	13.7	747
4	Bose-Einstein Condensation of Atoms in a Uniform Potential. Physical Review Letters, 2013, 110, 200406.	2.9	570
5	Evidence for a Critical Velocity in a Bose-Einstein Condensed Gas. Physical Review Letters, 1999, 83, 2502-2505.	2.9	453
6	Two-Species Mixture of Quantum Degenerate Bose and Fermi Gases. Physical Review Letters, 2002, 88, 160401.	2.9	398
7	Radio-Frequency Spectroscopy of Ultracold Fermions. Science, 2003, 300, 1723-1726.	6.0	242
8	Critical dynamics of spontaneous symmetry breaking in a homogeneous Bose gas. Science, 2015, 347, 167-170.	6.0	231
9	Homogeneous Atomic Fermi Gases. Physical Review Letters, 2017, 118, 123401.	2.9	188
10	Quantized supercurrent decay in an annular Bose-Einstein condensate. Physical Review A, 2012, 86, .	1.0	182
11	Interference of an Array of Independent Bose-Einstein Condensates. Physical Review Letters, 2004, 93, 180403.	2.9	170
12	Emergence of a turbulent cascade in a quantum gas. Nature, 2016, 539, 72-75.	13.7	165
13	Persistent Currents in Spinor Condensates. Physical Review Letters, 2013, 110, 025301.	2.9	161
14	Fiftyfold Improvement in the Number of Quantum Degenerate Fermionic Atoms. Physical Review Letters, 2003, 91, 160401.	2.9	151
15	Contrast Interferometry using Bose-Einstein Condensates to Measureh/mandÎ±. Physical Review Letters, 2002, 89, 140401.	2.9	139
16	Critical Point of an Interacting Two-Dimensional Atomic Bose Gas. Physical Review Letters, 2007, 99, 040402.	2.9	123
17	Observation of Phase Defects in Quasi-Two-Dimensional Bose-Einstein Condensates. Physical Review Letters, 2005, 95, 190403.	2.9	121
18	Decay of an Ultracold Fermionic Lithium Gas near a Feshbach Resonance. Physical Review Letters, 2002, 89, 203201.	2.9	119

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19	Universal prethermal dynamics of Bose gases quenched to unitarity. Nature, 2018, 563, 221-224.	13.7	117
20	Quantum Depletion of a Homogeneous Bose-Einstein Condensate. Physical Review Letters, 2017, 119, 190404.	2.9	102
21	The trapped two-dimensional Bose gas: from Boseâ€“Einstein condensation to Berezinskiiâ€“Kosterlitzâ€“Thouless physics. New Journal of Physics, 2008, 10, 045006.	1.2	86
22	Two- and three-body contacts in the unitary Bose gas. Science, 2017, 355, 377-380.	6.0	85
23	Robust Digital Holography For Ultracold Atom Trapping. Scientific Reports, 2012, 2, 721.	1.6	80
24	Stability of a Unitary Bose Gas. Physical Review Letters, 2013, 111, 125303.	2.9	76
25	Spectroscopic Insensitivity to Cold Collisions in a Two-State Mixture of Fermions. Physical Review Letters, 2003, 91, 250404.	2.9	72
26	Effects of Interactions on the Critical Temperature of a Trapped Bose Gas. Physical Review Letters, 2011, 106, 250403.	2.9	72
27	Quantum gases in optical boxes. Nature Physics, 2021, 17, 1334-1341.	6.5	70
28	Bose-Einstein condensates in fast rotation. Laser Physics Letters, 2005, 2, 275-284.	0.6	56
29	Measuring the Superfluid Fraction of an Ultracold Atomic Gas. Physical Review Letters, 2010, 104, 030401.	2.9	56
30	Connecting Berezinskii-Kosterlitz-Thouless and BEC Phase Transitions by Tuning Interactions in a Trapped Gas. Physical Review Letters, 2015, 114, 255302.	2.9	48
31	Bidirectional dynamic scaling in an isolated Bose gas far from equilibrium. Nature Physics, 2021, 17, 457-461.	6.5	48
32	Synthetic dissipation and cascade fluxes in a turbulent quantum gas. Science, 2019, 366, 382-385.	6.0	47
33	Observation of Efimov Molecules Created from a Resonantly Interacting Bose Gas. Physical Review Letters, 2017, 119, 143401.	2.9	46
34	Observing properties of an interacting homogeneous Bose-Einstein condensate: Heisenberg-limited momentum spread, interaction energy, and free-expansion dynamics. Physical Review A, 2014, 89, .	1.0	44
35	Universal Scaling Laws in the Dynamics of a Homogeneous Unitary Bose Gas. Physical Review Letters, 2017, 119, 250404.	2.9	43
36	Quantum Joule-Thomson Effect in a Saturated Homogeneous Bose Gas. Physical Review Letters, 2014, 112, 040403.	2.9	40

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37	Can a Bose Gas Be Saturated?. Physical Review Letters, 2011, 106, 230401.	2.9	39
38	Observation of first and second sound in a BKT superfluid. Nature, 2021, 594, 191-194.	13.7	37
39	Quasiparticle Energy in a Strongly Interacting Homogeneous Bose-Einstein Condensate. Physical Review Letters, 2017, 118, 210401.	2.9	35
40	Efficient production of large<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">K</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>39</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>Bose-Einstein condensates. Physical Review A, 2010, 82, .	1.0	33
41	Observation of Weak Collapse in a Bose-Einstein Condensate. Physical Review X, 2016, 6, .	2.8	24
42	From single-particle excitations to sound waves in a box-trapped atomic Bose-Einstein condensate. Physical Review A, 2019, 99, .	1.0	24
43	Condensed Fraction of an Atomic Bose Gas Induced by Critical Correlations. Physical Review Letters, 2011, 107, 190403.	2.9	23
44	Condensation Dynamics in a Quantum-Quenched Bose Gas. Physical Review Letters, 2012, 109, 105301.	2.9	18
45	Absorption in the troughs of the far infrared spectra of NH3 and mixtures of NH3 and H2. Journal of Quantitative Spectroscopy and Radiative Transfer, 2000, 64, 47-65.	1.1	16
46	Collisions in Zero Temperature Fermi Gases. Physical Review Letters, 2004, 92, 100401.	2.9	16
47	Quantized Vortices in the Ideal Bose Gas: A Physical Realization of Random Polynomials. Physical Review Letters, 2006, 96, 040405.	2.9	16
48	A superheated Bose-condensed gas. Nature Physics, 2013, 9, 271-274.	6.5	13
49	Resonant-light diffusion in a disordered atomic layer. Physical Review A, 2018, 97, .	1.0	12
50	Can Three-Body Recombination Purify a Quantum Gas?. Physical Review Letters, 2019, 123, 020405.	2.9	12
51	Spectroscopic method to measure the superfluid fraction of an ultracold atomic gas. Physical Review A, 2011, 83, .	1.0	11
52	Elliptic flow in a strongly interacting normal Bose gas. Physical Review A, 2018, 98, .	1.0	6
53	Many-Body Decay of the Gapped Lowest Excitation of a Bose-Einstein Condensate. Physical Review Letters, 2021, 126, 060402.	2.9	6
54	First and Second Sound in a Compressible 3D Bose Fluid. Physical Review Letters, 2022, 128, .	2.9	6

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55	The cold reality of exclusion. Nature Physics, 2010, 6, 643-644.	6.5	3
56	Low-Dimensional Atomic Bose Gases. Contemporary Concepts of Condensed Matter Science, 2012, 5, 95-120.	0.5	1
57	BKT Physics with Two-Dimensional Atomic Gases. , 2013, , 297-323.		1
58	The Atomic Bose Gas in Flatland. AIP Conference Proceedings, 2006, , .	0.3	0
59	NataÅ¡a ÄŒalukoviÄ‡, an inspiring physics teacher. Europhysics News, 2010, 41, 13-14.	0.1	0
60	Effects of Interactions on Bose-Einstein Condensation of an Atomic Gas. Springer Series in Solid-state Sciences, 2013, , 341-359.	0.3	0