

Zoran Hadzibabic

List of Publications by Year in Descending Order

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Version: 2024-04-25

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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.

56
papers

5,883
citations

32
h-index

61
g-index

61
ext. papers

6,737
ext. citations

11.4
avg, IF

5.6
L-index

#	Paper	IF	Citations
56	Observation of first and second sound in a BKT superfluid. <i>Nature</i> , 2021 , 594, 191-194	50.4	5
55	Many-Body Decay of the Gapped Lowest Excitation of a Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2021 , 126, 060402	7.4	1
54	Bidirectional dynamic scaling in an isolated Bose gas far from equilibrium. <i>Nature Physics</i> , 2021 , 17, 457-461	16.2	8
53	Quantum gases in optical boxes. <i>Nature Physics</i> , 2021 , 17, 1334-1341	16.2	4
52	From single-particle excitations to sound waves in a box-trapped atomic Bose-Einstein condensate. <i>Physical Review A</i> , 2019 , 99,	2.6	17
51	Can Three-Body Recombination Purify a Quantum Gas?. <i>Physical Review Letters</i> , 2019 , 123, 020405	7.4	6
50	Synthetic dissipation and cascade fluxes in a turbulent quantum gas. <i>Science</i> , 2019 , 366, 382-385	33.3	18
49	Resonant-light diffusion in a disordered atomic layer. <i>Physical Review A</i> , 2018 , 97,	2.6	8
48	Universal prethermal dynamics of Bose gases quenched to unitarity. <i>Nature</i> , 2018 , 563, 221-224	50.4	58
47	Elliptic flow in a strongly interacting normal Bose gas. <i>Physical Review A</i> , 2018 , 98,	2.6	4
46	Two- and three-body contacts in the unitary Bose gas. <i>Science</i> , 2017 , 355, 377-380	33.3	59
45	Homogeneous Atomic Fermi Gases. <i>Physical Review Letters</i> , 2017 , 118, 123401	7.4	127
44	Observation of Efimov Molecules Created from a Resonantly Interacting Bose Gas. <i>Physical Review Letters</i> , 2017 , 119, 143401	7.4	36
43	Quasiparticle Energy in a Strongly Interacting Homogeneous Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2017 , 118, 210401	7.4	23
42	Quantum Depletion of a Homogeneous Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2017 , 119, 190404	7.4	66
41	Universal Scaling Laws in the Dynamics of a Homogeneous Unitary Bose Gas. <i>Physical Review Letters</i> , 2017 , 119, 250404	7.4	26
40	Emergence of a turbulent cascade in a quantum gas. <i>Nature</i> , 2016 , 539, 72-75	50.4	95

39	Observation of Weak Collapse in a Bose-Einstein Condensate. <i>Physical Review X</i> , 2016 , 6,	9.1	13
38	Connecting Berezinskii-Kosterlitz-Thouless and BEC Phase Transitions by Tuning Interactions in a Trapped Gas. <i>Physical Review Letters</i> , 2015 , 114, 255302	7.4	27
37	Quantum gases. Critical dynamics of spontaneous symmetry breaking in a homogeneous Bose gas. <i>Science</i> , 2015 , 347, 167-70	33.3	182
36	Quantum Joule-Thomson effect in a saturated homogeneous Bose gas. <i>Physical Review Letters</i> , 2014 , 112, 040403	7.4	35
35	Observing properties of an interacting homogeneous Bose-Einstein condensate: Heisenberg-limited momentum spread, interaction energy, and free-expansion dynamics. <i>Physical Review A</i> , 2014 , 89,	2.6	33
34	Stability of a unitary Bose gas. <i>Physical Review Letters</i> , 2013 , 111, 125303	7.4	67
33	Persistent currents in spinor condensates. <i>Physical Review Letters</i> , 2013 , 110, 025301	7.4	127
32	A superheated Bose-condensed gas. <i>Nature Physics</i> , 2013 , 9, 271-274	16.2	10
31	Bose-Einstein condensation of atoms in a uniform potential. <i>Physical Review Letters</i> , 2013 , 110, 200406	7.4	435
30	BKT Physics with Two-Dimensional Atomic Gases 2013 , 297-323		1
29	Effects of Interactions on Bose-Einstein Condensation of an Atomic Gas. <i>Springer Series in Solid-state Sciences</i> , 2013 , 341-359	0.4	
28	Spin-injection spectroscopy of a spin-orbit coupled Fermi gas. <i>Physical Review Letters</i> , 2012 , 109, 095302	7.4	672
27	Robust digital holography for ultracold atom trapping. <i>Scientific Reports</i> , 2012 , 2, 721	4.9	65
26	Quantized supercurrent decay in an annular Bose-Einstein condensate. <i>Physical Review A</i> , 2012 , 86,	2.6	147
25	Low-Dimensional Atomic Bose Gases. <i>Contemporary Concepts of Condensed Matter Science</i> , 2012 , 5, 95-120		1
24	Condensation dynamics in a quantum-quenched Bose gas. <i>Physical Review Letters</i> , 2012 , 109, 105301	7.4	16
23	Can a Bose gas be saturated?. <i>Physical Review Letters</i> , 2011 , 106, 230401	7.4	35
22	Condensed fraction of an atomic Bose gas induced by critical correlations. <i>Physical Review Letters</i> , 2011 , 107, 190403	7.4	20

21	Effects of interactions on the critical temperature of a trapped Bose gas. <i>Physical Review Letters</i> , 2011 , 106, 250403	7.4	64
20	Spectroscopic method to measure the superfluid fraction of an ultracold atomic gas. <i>Physical Review A</i> , 2011 , 83,	2.6	8
19	Measuring the superfluid fraction of an ultracold atomic gas. <i>Physical Review Letters</i> , 2010 , 104, 030401	7.4	48
18	Efficient production of large K39 Bose-Einstein condensates. <i>Physical Review A</i> , 2010 , 82,	2.6	28
17	The trapped two-dimensional Bose gas: from Bose-Einstein condensation to Berezinskii-Kosterlitz-Thouless physics. <i>New Journal of Physics</i> , 2008 , 10, 045006	2.9	75
16	Critical point of an interacting two-dimensional atomic Bose gas. <i>Physical Review Letters</i> , 2007 , 99, 040402	7.4	113
15	Quantized vortices in the ideal Bose gas: a physical realization of random polynomials. <i>Physical Review Letters</i> , 2006 , 96, 040405	7.4	14
14	Berezinskii-Kosterlitz-Thouless crossover in a trapped atomic gas. <i>Nature</i> , 2006 , 441, 1118-21	50.4	628
13	Observation of phase defects in quasi-two-dimensional Bose-Einstein condensates. <i>Physical Review Letters</i> , 2005 , 95, 190403	7.4	114
12	Bose-Einstein condensates in fast rotation. <i>Laser Physics Letters</i> , 2005 , 2, 275-284	1.5	52
11	Collisions in zero temperature Fermi gases. <i>Physical Review Letters</i> , 2004 , 92, 100401	7.4	16
10	Interference of an array of independent Bose-Einstein condensates. <i>Physical Review Letters</i> , 2004 , 93, 180403	7.4	151
9	Radio-frequency spectroscopy of ultracold fermions. <i>Science</i> , 2003 , 300, 1723-6	33.3	219
8	Fiftyfold improvement in the number of quantum degenerate fermionic atoms. <i>Physical Review Letters</i> , 2003 , 91, 160401	7.4	141
7	Observation of Bose-Einstein condensation of molecules. <i>Physical Review Letters</i> , 2003 , 91, 250401	7.4	719
6	Spectroscopic insensitivity to cold collisions in a two-state mixture of fermions. <i>Physical Review Letters</i> , 2003 , 91, 250404	7.4	57
5	Decay of an ultracold fermionic lithium gas near a Feshbach resonance. <i>Physical Review Letters</i> , 2002 , 89, 203201	7.4	111
4	Contrast interferometry using Bose-Einstein condensates to measure \hbar/m and α . <i>Physical Review Letters</i> , 2002 , 89, 140401	7.4	124

- 3 Two-species mixture of quantum degenerate Bose and Fermi gases. *Physical Review Letters*, **2002**, 88, 160401 7.4 359
- 2 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 2.1 13
- 1 Evidence for a Critical Velocity in a Bose-Einstein Condensed Gas. *Physical Review Letters*, **1999**, 83, 2502-2505 380