

# Zoran Hadzibabic

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/2451363/zoran-hadzibabic-publications-by-citations.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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 Bose-Einstein condensation of molecules. <i>Physical Review Letters</i> , <b>2003</b> , 91, 250401	7.4	719
55	Spin-injection spectroscopy of a spin-orbit coupled Fermi gas. <i>Physical Review Letters</i> , <b>2012</b> , 109, 095302	7.4	672
54	Berezinskii-Kosterlitz-Thouless crossover in a trapped atomic gas. <i>Nature</i> , <b>2006</b> , 441, 1118-21	50.4	628
53	Bose-Einstein condensation of atoms in a uniform potential. <i>Physical Review Letters</i> , <b>2013</b> , 110, 200406	7.4	435
52	Evidence for a Critical Velocity in a Bose-Einstein Condensed Gas. <i>Physical Review Letters</i> , <b>1999</b> , 83, 25027	25.05	380
51	Two-species mixture of quantum degenerate Bose and Fermi gases. <i>Physical Review Letters</i> , <b>2002</b> , 88, 160401	7.4	359
50	Radio-frequency spectroscopy of ultracold fermions. <i>Science</i> , <b>2003</b> , 300, 1723-6	33.3	219
49	Quantum gases. Critical dynamics of spontaneous symmetry breaking in a homogeneous Bose gas. <i>Science</i> , <b>2015</b> , 347, 167-70	33.3	182
48	Interference of an array of independent Bose-Einstein condensates. <i>Physical Review Letters</i> , <b>2004</b> , 93, 180403	7.4	151
47	Quantized supercurrent decay in an annular Bose-Einstein condensate. <i>Physical Review A</i> , <b>2012</b> , 86,	2.6	147
46	Fiftyfold improvement in the number of quantum degenerate fermionic atoms. <i>Physical Review Letters</i> , <b>2003</b> , 91, 160401	7.4	141
45	Homogeneous Atomic Fermi Gases. <i>Physical Review Letters</i> , <b>2017</b> , 118, 123401	7.4	127
44	Persistent currents in spinor condensates. <i>Physical Review Letters</i> , <b>2013</b> , 110, 025301	7.4	127
43	Contrast interferometry using Bose-Einstein condensates to measure $h/m$ and $\alpha$ . <i>Physical Review Letters</i> , <b>2002</b> , 89, 140401	7.4	124
42	Observation of phase defects in quasi-two-dimensional Bose-Einstein condensates. <i>Physical Review Letters</i> , <b>2005</b> , 95, 190403	7.4	114
41	Critical point of an interacting two-dimensional atomic Bose gas. <i>Physical Review Letters</i> , <b>2007</b> , 99, 040402	7.4	113
40	Decay of an ultracold fermionic lithium gas near a Feshbach resonance. <i>Physical Review Letters</i> , <b>2002</b> , 89, 203201	7.4	111

39	Emergence of a turbulent cascade in a quantum gas. <i>Nature</i> , <b>2016</b> , 539, 72-75	50.4	95
38	The trapped two-dimensional Bose gas: from Bose-Einstein condensation to Berezinskii-Kosterlitz-Thouless physics. <i>New Journal of Physics</i> , <b>2008</b> , 10, 045006	2.9	75
37	Stability of a unitary Bose gas. <i>Physical Review Letters</i> , <b>2013</b> , 111, 125303	7.4	67
36	Quantum Depletion of a Homogeneous Bose-Einstein Condensate. <i>Physical Review Letters</i> , <b>2017</b> , 119, 190404	7.4	66
35	Robust digital holography for ultracold atom trapping. <i>Scientific Reports</i> , <b>2012</b> , 2, 721	4.9	65
34	Effects of interactions on the critical temperature of a trapped Bose gas. <i>Physical Review Letters</i> , <b>2011</b> , 106, 250403	7.4	64
33	Two- and three-body contacts in the unitary Bose gas. <i>Science</i> , <b>2017</b> , 355, 377-380	33.3	59
32	Universal prethermal dynamics of Bose gases quenched to unitarity. <i>Nature</i> , <b>2018</b> , 563, 221-224	50.4	58
31	Spectroscopic insensitivity to cold collisions in a two-state mixture of fermions. <i>Physical Review Letters</i> , <b>2003</b> , 91, 250404	7.4	57
30	Bose-Einstein condensates in fast rotation. <i>Laser Physics Letters</i> , <b>2005</b> , 2, 275-284	1.5	52
29	Measuring the superfluid fraction of an ultracold atomic gas. <i>Physical Review Letters</i> , <b>2010</b> , 104, 030401	7.4	48
28	Observation of Efimov Molecules Created from a Resonantly Interacting Bose Gas. <i>Physical Review Letters</i> , <b>2017</b> , 119, 143401	7.4	36
27	Quantum Joule-Thomson effect in a saturated homogeneous Bose gas. <i>Physical Review Letters</i> , <b>2014</b> , 112, 040403	7.4	35
26	Can a Bose gas be saturated?. <i>Physical Review Letters</i> , <b>2011</b> , 106, 230401	7.4	35
25	Observing properties of an interacting homogeneous Bose-Einstein condensate: Heisenberg-limited momentum spread, interaction energy, and free-expansion dynamics. <i>Physical Review A</i> , <b>2014</b> , 89,	2.6	33
24	Efficient production of large K39 Bose-Einstein condensates. <i>Physical Review A</i> , <b>2010</b> , 82,	2.6	28
23	Connecting Berezinskii-Kosterlitz-Thouless and BEC Phase Transitions by Tuning Interactions in a Trapped Gas. <i>Physical Review Letters</i> , <b>2015</b> , 114, 255302	7.4	27
22	Universal Scaling Laws in the Dynamics of a Homogeneous Unitary Bose Gas. <i>Physical Review Letters</i> , <b>2017</b> , 119, 250404	7.4	26

21	Quasiparticle Energy in a Strongly Interacting Homogeneous Bose-Einstein Condensate. <i>Physical Review Letters</i> , <b>2017</b> , 118, 210401	7.4	23
20	Condensed fraction of an atomic Bose gas induced by critical correlations. <i>Physical Review Letters</i> , <b>2011</b> , 107, 190403	7.4	20
19	Synthetic dissipation and cascade fluxes in a turbulent quantum gas. <i>Science</i> , <b>2019</b> , 366, 382-385	33.3	18
18	From single-particle excitations to sound waves in a box-trapped atomic Bose-Einstein condensate. <i>Physical Review A</i> , <b>2019</b> , 99,	2.6	17
17	Condensation dynamics in a quantum-quenched Bose gas. <i>Physical Review Letters</i> , <b>2012</b> , 109, 105301	7.4	16
16	Collisions in zero temperature Fermi gases. <i>Physical Review Letters</i> , <b>2004</b> , 92, 100401	7.4	16
15	Quantized vortices in the ideal Bose gas: a physical realization of random polynomials. <i>Physical Review Letters</i> , <b>2006</b> , 96, 040405	7.4	14
14	Absorption in the troughs of the far infrared spectra of NH <sub>3</sub> and mixtures of NH <sub>3</sub> and H <sub>2</sub> . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2000</b> , 64, 47-65	2.1	13
13	Observation of Weak Collapse in a Bose-Einstein Condensate. <i>Physical Review X</i> , <b>2016</b> , 6,	9.1	13
12	A superheated Bose-condensed gas. <i>Nature Physics</i> , <b>2013</b> , 9, 271-274	16.2	10
11	Resonant-light diffusion in a disordered atomic layer. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	8
10	Spectroscopic method to measure the superfluid fraction of an ultracold atomic gas. <i>Physical Review A</i> , <b>2011</b> , 83,	2.6	8
9	Bidirectional dynamic scaling in an isolated Bose gas far from equilibrium. <i>Nature Physics</i> , <b>2021</b> , 17, 457-462	16.2	8
8	Can Three-Body Recombination Purify a Quantum Gas?. <i>Physical Review Letters</i> , <b>2019</b> , 123, 020405	7.4	6
7	Observation of first and second sound in a BKT superfluid. <i>Nature</i> , <b>2021</b> , 594, 191-194	50.4	5
6	Elliptic flow in a strongly interacting normal Bose gas. <i>Physical Review A</i> , <b>2018</b> , 98,	2.6	4
5	Quantum gases in optical boxes. <i>Nature Physics</i> , <b>2021</b> , 17, 1334-1341	16.2	4
4	Low-Dimensional Atomic Bose Gases. <i>Contemporary Concepts of Condensed Matter Science</i> , <b>2012</b> , 5, 95-120		1

- |   |  |     |   |
|---|--|-----|---|
| 3 | BKT Physics with Two-Dimensional Atomic Gases <b>2013</b> , 297-323  |     | 1 |
| 2 | Many-Body Decay of the Gapped Lowest Excitation of a Bose-Einstein Condensate. <i>Physical Review Letters</i> , <b>2021</b> , 126, 060402      | 7.4 | 1 |
| 1 | Effects of Interactions on Bose-Einstein Condensation of an Atomic Gas. <i>Springer Series in Solid-state Sciences</i> , <b>2013</b> , 341-359 | 0.4 |   |