

Raphael Lopes

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.

24
papers

719
citations

13
h-index

26
g-index

26
ext. papers

958
ext. citations

12.8
avg, IF

3.98
L-index

#	Paper	IF	Citations
24	Acoustic analog to the dynamical Casimir effect in a Bose-Einstein condensate. <i>Physical Review Letters</i> , 2012 , 109, 220401	7.4	129
23	Atomic Hong-Ou-Mandel experiment. <i>Nature</i> , 2015 , 520, 66-8	50.4	114
22	Violation of the Cauchy-Schwarz inequality with matter waves. <i>Physical Review Letters</i> , 2012 , 108, 260401	7.4	68
21	Quantum Depletion of a Homogeneous Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2017 , 119, 190404	7.4	66
20	Two- and three-body contacts in the unitary Bose gas. <i>Science</i> , 2017 , 355, 377-380	33.3	59
19	Universal prethermal dynamics of Bose gases quenched to unitarity. <i>Nature</i> , 2018 , 563, 221-224	50.4	58
18	Formation of H ₃ by radiative association of H ₂ and H in the interstellar medium. <i>Physical Review A</i> , 2011 , 83,	2.6	32
17	Tunable source of correlated atom beams. <i>Physical Review A</i> , 2013 , 87,	2.6	30
16	Universal Scaling Laws in the Dynamics of a Homogeneous Unitary Bose Gas. <i>Physical Review Letters</i> , 2017 , 119, 250404	7.4	26
15	Quasiparticle Energy in a Strongly Interacting Homogeneous Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2017 , 118, 210401	7.4	23
14	Probing chiral edge dynamics and bulk topology of a synthetic Hall system. <i>Nature Physics</i> , 2020 , 16, 1017-1021	16.2	20
13	Synthetic dissipation and cascade fluxes in a turbulent quantum gas. <i>Science</i> , 2019 , 366, 382-385	33.3	18
12	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
11	Enhanced Magnetic Sensitivity with Non-Gaussian Quantum Fluctuations. <i>Physical Review Letters</i> , 2019 , 122, 173601	7.4	13
10	Probing Quantum Criticality and Symmetry Breaking at the Microscopic Level. <i>Physical Review Letters</i> , 2019 , 123, 120601	7.4	12
9	Two-Particle Four-Mode Interferometer for Atoms. <i>Physical Review Letters</i> , 2017 , 119, 173202	7.4	9
8	Second-order coherence of superradiance from a Bose-Einstein condensate. <i>Physical Review A</i> , 2014 , 90,	2.6	7

7	Observation of first and second sound in a BKT superfluid. <i>Nature</i> , 2021 , 594, 191-194	50.4	5
6	Anisotropic light shift and magic polarization of the intercombination line of dysprosium atoms in a far-detuned dipole trap. <i>Physical Review A</i> , 2018 , 98,	2.6	5
5	Elliptic flow in a strongly interacting normal Bose gas. <i>Physical Review A</i> , 2018 , 98,	2.6	4
4	Simulating two-dimensional dynamics within a large-size atomic spin. <i>Physical Review A</i> , 2022 , 105,	2.6	1
3	Many-Body Decay of the Gapped Lowest Excitation of a Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2021 , 126, 060402	7.4	1
2	Partitioning dysprosium's electronic spin to reveal entanglement in nonclassical states. <i>Physical Review Research</i> , 2021 , 3,	3.9	1
1	Laughlin's Topological Charge Pump in an Atomic Hall Cylinder.. <i>Physical Review Letters</i> , 2022 , 128, 173204	2.4	1