

# Raphael Lopes

## List of Publications by Year in Descending Order

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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	Simulating two-dimensional dynamics within a large-size atomic spin. <i>Physical Review A</i> , <b>2022</b> , 105,	2.6	1
23	Laughlin's Topological Charge Pump in an Atomic Hall Cylinder.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 173202	7.4	1
22	Observation of first and second sound in a BKT superfluid. <i>Nature</i> , <b>2021</b> , 594, 191-194	50.4	5
21	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
20	Partitioning dysprosium's electronic spin to reveal entanglement in nonclassical states. <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	1
19	Probing chiral edge dynamics and bulk topology of a synthetic Hall system. <i>Nature Physics</i> , <b>2020</b> , 16, 1017-1021	16.2	20
18	Probing Quantum Criticality and Symmetry Breaking at the Microscopic Level. <i>Physical Review Letters</i> , <b>2019</b> , 123, 120601	7.4	12
17	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
16	Enhanced Magnetic Sensitivity with Non-Gaussian Quantum Fluctuations. <i>Physical Review Letters</i> , <b>2019</b> , 122, 173601	7.4	13
15	Synthetic dissipation and cascade fluxes in a turbulent quantum gas. <i>Science</i> , <b>2019</b> , 366, 382-385	33.3	18
14	Universal prethermal dynamics of Bose gases quenched to unitarity. <i>Nature</i> , <b>2018</b> , 563, 221-224	50.4	58
13	Anisotropic light shift and magic polarization of the intercombination line of dysprosium atoms in a far-detuned dipole trap. <i>Physical Review A</i> , <b>2018</b> , 98,	2.6	5
12	Elliptic flow in a strongly interacting normal Bose gas. <i>Physical Review A</i> , <b>2018</b> , 98,	2.6	4
11	Two- and three-body contacts in the unitary Bose gas. <i>Science</i> , <b>2017</b> , 355, 377-380	33.3	59
10	Quasiparticle Energy in a Strongly Interacting Homogeneous Bose-Einstein Condensate. <i>Physical Review Letters</i> , <b>2017</b> , 118, 210401	7.4	23
9	Two-Particle Four-Mode Interferometer for Atoms. <i>Physical Review Letters</i> , <b>2017</b> , 119, 173202	7.4	9
8	Quantum Depletion of a Homogeneous Bose-Einstein Condensate. <i>Physical Review Letters</i> , <b>2017</b> , 119, 190404	7.4	66

7	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
6	Atomic Hong-Ou-Mandel experiment. <i>Nature</i> , <b>2015</b> , 520, 66-8	50.4	114
5	Second-order coherence of superradiance from a Bose-Einstein condensate. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	7
4	Tunable source of correlated atom beams. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	30
3	Acoustic analog to the dynamical Casimir effect in a Bose-Einstein condensate. <i>Physical Review Letters</i> , <b>2012</b> , 109, 220401	7.4	129
2	Violation of the Cauchy-Schwarz inequality with matter waves. <i>Physical Review Letters</i> , <b>2012</b> , 108, 260401	7.4	68
1	Formation of H <sub>3</sub> by radiative association of H <sub>2</sub> and H in the interstellar medium. <i>Physical Review A</i> , <b>2011</b> , 83,	2.6	32