

# Gabriele Ferrari

## List of Publications by Citations

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65  
papers

4,295  
citations

27  
h-index

65  
g-index

67  
ext. papers

4,686  
ext. citations

5.7  
avg. IF

4.83  
L-index

#	Paper	IF	Citations
65	Formation of a matter-wave bright soliton. <i>Science</i> , <b>2002</b> , 296, 1290-3	33.3	1218
64	Quasipure Bose-Einstein condensate immersed in a Fermi sea. <i>Physical Review Letters</i> , <b>2001</b> , 87, 080403	7.4	667
63	Bose-Einstein condensation of potassium atoms by sympathetic cooling. <i>Science</i> , <b>2001</b> , 294, 1320-2	33.3	296
62	Proposed antimatter gravity measurement with an antihydrogen beam. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2008</b> , 266, 351-356	1.2	216
61	Long-lived BLOCH oscillations with bosonic sr atoms and application to gravity measurement at the micrometer scale. <i>Physical Review Letters</i> , <b>2006</b> , 97, 060402	7.4	186
60	Spontaneous creation of Kibble-Zurek solitons in a Bose-Einstein condensate. <i>Nature Physics</i> , <b>2013</b> , 9, 656-660	16.2	157
59	Collisional properties of ultracold K-Rb mixtures. <i>Physical Review Letters</i> , <b>2002</b> , 89, 053202	7.4	114
58	Sympathetic cooling of bosonic and fermionic lithium gases towards quantum degeneracy. <i>Physical Review A</i> , <b>2001</b> , 64,	2.6	111
57	Observation of solitonic vortices in Bose-Einstein condensates. <i>Physical Review Letters</i> , <b>2014</b> , 113, 065302	7.4	90
56	Giant Spin Relaxation of an Ultracold Cesium Gas. <i>Physical Review Letters</i> , <b>1998</b> , 80, 1869-1872	7.4	87
55	Coherent delocalization of atomic wave packets in driven lattice potentials. <i>Physical Review Letters</i> , <b>2008</b> , 100, 043602	7.4	82
54	Engineering the quantum transport of atomic wavefunctions over macroscopic distances. <i>Nature Physics</i> , <b>2009</b> , 5, 547-550	16.2	81
53	Einstein Gravity Explorer – medium-class fundamental physics mission. <i>Experimental Astronomy</i> , <b>2009</b> , 23, 573-610	1.3	76
52	Exploring the WEP with a pulsed cold beam of antihydrogen. <i>Classical and Quantum Gravity</i> , <b>2012</b> , 29, 184009	3.3	71
51	Simultaneous magneto-optical trapping of two lithium isotopes. <i>Physical Review A</i> , <b>1999</b> , 61,	2.6	67
50	Precision frequency measurement of visible intercombination lines of strontium. <i>Physical Review Letters</i> , <b>2003</b> , 91, 243002	7.4	60
49	Dynamics and Interaction of Vortex Lines in an Elongated Bose-Einstein Condensate. <i>Physical Review Letters</i> , <b>2015</b> , 115, 170402	7.4	49

48	Dynamic structure factor of a superfluid Fermi gas. <i>European Physical Journal D</i> , <b>2001</b> , 17, 49-55	1.3	42
47	Quantum sensor for atom-surface interactions below 10 <sup>10</sup> h. <i>Physical Review A</i> , <b>2009</b> , 79,	2.6	41
46	Vortex Reconnections and Rebounds in Trapped Atomic Bose-Einstein Condensates. <i>Physical Review X</i> , <b>2017</b> , 7,	9.1	36
45	Atomic wave packets in amplitude-modulated vertical optical lattices. <i>New Journal of Physics</i> , <b>2010</b> , 12, 065037	2.9	35
44	Cooling and trapping of ultracold strontium isotopic mixtures. <i>Physical Review A</i> , <b>2005</b> , 71,	2.6	35
43	Collisional relaxation in a fermionic gas. <i>Physical Review A</i> , <b>1999</b> , 59, R4125-R4128	2.6	35
42	Compact high-flux source of cold sodium atoms. <i>Review of Scientific Instruments</i> , <b>2013</b> , 84, 063102	1.7	33
41	High-power multiple-frequency narrow-linewidth laser source based on a semiconductor tapered amplifier. <i>Optics Letters</i> , <b>1999</b> , 24, 151-3	3	33
40	Efficient two-step Positronium laser excitation to Rydberg levels. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2011</b> , 269, 1527-1533	1.2	32
39	Observation of Spin Superfluidity in a Bose Gas Mixture. <i>Physical Review Letters</i> , <b>2018</b> , 120, 170401	7.4	28
38	Cooling of Sr to high phase-space density by laser and sympathetic cooling in isotopic mixtures. <i>Physical Review A</i> , <b>2006</b> , 73,	2.6	26
37	Creation and counting of defects in a temperature-quenched Bose-Einstein condensate. <i>Physical Review A</i> , <b>2016</b> , 94,	2.6	24
36	Sub-Doppler cooling of sodium atoms in gray molasses. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	23
35	Spin-dipole oscillation and polarizability of a binary Bose-Einstein condensate near the miscible-immiscible phase transition. <i>Physical Review A</i> , <b>2016</b> , 94,	2.6	22
34	Dynamical equilibration across a quenched phase transition in a trapped quantum gas. <i>Communications Physics</i> , <b>2018</b> , 1,	5.4	20
33	LASER COOLING AND TRAPPING OF ATOMIC STRONTIUM FOR ULTRACOLD ATOMS PHYSICS, HIGH-PRECISION SPECTROSCOPY AND QUANTUM SENSORS. <i>Modern Physics Letters B</i> , <b>2006</b> , 20, 1287-1320	1.6	18
32	Observation of Magnetic Solitons in Two-Component Bose-Einstein Condensates. <i>Physical Review Letters</i> , <b>2020</b> , 125, 030401	7.4	18
31	Laser sources for precision spectroscopy on atomic strontium. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2006</b> , 63, 981-6	4.4	17

30	Formation Of A Cold Antihydrogen Beam in AEGIS For Gravity Measurements. <i>AIP Conference Proceedings</i> , <b>2008</b> ,	0	14
29	Design and characterization of a compact magnetic shield for ultracold atomic gas experiments. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 115114	1.7	13
28	Increasing quantum degeneracy by heating a superfluid. <i>Physical Review Letters</i> , <b>2012</b> , 109, 084501	7.4	12
27	Antihydrogen physics: gravitation and spectroscopy in AEGIS This paper was presented at the International Conference on Precision Physics of Simple Atomic Systems, held at École de Physique, les Houches, France, 30 May & June, 2010.. <i>Canadian Journal of Physics</i> , <b>2011</b> , 89, 17-24	1.1	12
26	Solitonic vortices in Bose-Einstein condensates. <i>European Physical Journal: Special Topics</i> , <b>2015</b> , 224, 577-583	2.3	11
25	Production of large Bose-Einstein condensates in a magnetic-shield-compatible hybrid trap. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	9
24	Observation of a spinning top in a Bose-Einstein condensate. <i>Physical Review A</i> , <b>2017</b> , 96,	2.6	8
23	Sideband-Enhanced Cold Atomic Source for Optical Clocks. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	8
22	The AEGIS detection system for gravity measurements. <i>Nuclear Physics A</i> , <b>2010</b> , 834, 751c-753c	1.3	7
21	Measurement of the Canonical Equation of State of a Weakly Interacting 3D Bose Gas. <i>Physical Review Letters</i> , <b>2020</b> , 125, 150404	7.4	6
20	A novel method of preparation of silicon-on-diamond materials. <i>Diamond and Related Materials</i> , <b>2010</b> , 19, 950-955	3.5	5
19	A Bose-Einstein condensate immersed in a Fermi sea: observation of ultra-cold mixture of Bose and Fermi gases. <i>Physica B: Condensed Matter</i> , <b>2003</b> , 329-333, 13-16	2.8	5
18	Collision-assisted Zeeman cooling of neutral atoms. <i>European Physical Journal D</i> , <b>2001</b> , 13, 67-70	1.3	4
17	Manipulation of an elongated internal Josephson junction of bosonic atoms. <i>Physical Review A</i> , <b>2021</b> , 104,	2.6	4
16	A strontium optical lattice clock apparatus for precise frequency metrology and beyond <b>2017</b> ,		3
15	The AEGIS experiment at CERN. <i>Hyperfine Interactions</i> , <b>2012</b> , 209, 43-49	0.8	3
14	Coherent addition of laser beams in resonant passive optical cavities. <i>Optics Letters</i> , <b>2010</b> , 35, 3105-7	3	3
13	Laser sources for efficient two-step Positronium excitation to Rydberg states. <i>Journal of Molecular Structure</i> , <b>2011</b> , 993, 495-499	3.4	3

12	Self-similar scaling in the coherent dynamics of ultracold atoms. <i>Physical Review A</i> , <b>2009</b> , 80,	2.6	3
11	Prospect for a compact strontium optical lattice clock <b>2007</b> ,		3
10	Measuring the fall of antihydrogen: the AEGIS experiment at CERN. <i>Physics Procedia</i> , <b>2011</b> , 17, 49-56		2
9	Cavity-enhanced single-frequency synthesis via difference-frequency generation of mode-locked pulse trains. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2005</b> , 22, 2115	1.7	2
8	Laser sources for precision spectroscopy on atomic strontium <b>2004</b> ,		2
7	Single-shot reconstruction of the density profile of a dense atomic gas. <i>Optics Express</i> , <b>2020</b> , 28, 29408-29418	3.4	2
6	Optical Visibility and Core Structure of Vortex Filaments in a Bosonic Superfluid. <i>Journal of Experimental and Theoretical Physics</i> , <b>2018</b> , 127, 804-811	1	2
5	Physics. Dynamics of a cold quantum gas. <i>Science</i> , <b>2015</b> , 347, 127	33.3	1
4	Generating green to red light with semiconductor lasers. <i>Optics Express</i> , <b>2007</b> , 15, 1672-8	3.3	1
3	Quantum-torque-induced breaking of magnetic interfaces in ultracold gases. <i>Nature Physics</i> ,	16.2	1
2	Quasi-periodic Wannier-Stark ladders from driven atomic Bloch oscillations. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2014</b> , 470, 20140421	2.4	
1	The AEGIS experiment at CERN <b>2012</b> , 43-49		