

Francesco Cataliotti

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.

91
papers

3,386
citations

27
h-index

57
g-index

110
ext. papers

3,751
ext. citations

4.3
avg, IF

4.73
L-index

#	Paper	IF	Citations
91	Josephson junction arrays with Bose-Einstein condensates. <i>Science</i> , 2001 , 293, 843-6	33.3	676
90	Superfluid and dissipative dynamics of a Bose-Einstein condensate in a periodic optical potential. <i>Physical Review Letters</i> , 2001 , 86, 4447-50	7.4	282
89	Polarization qubit phase gate in driven atomic media. <i>Physical Review Letters</i> , 2003 , 90, 197902	7.4	170
88	Quantum many particle systems in ring-shaped optical lattices. <i>Physical Review Letters</i> , 2005 , 95, 063201	7.4	163
87	Superfluid current disruption in a chain of weakly coupled Bose-Einstein condensates. <i>New Journal of Physics</i> , 2003 , 5, 71-71	2.9	162
86	Expansion of a coherent array of Bose-Einstein condensates. <i>Physical Review Letters</i> , 2001 , 87, 220401	7.4	160
85	Polarization phase gate with a tripod atomic system. <i>Physical Review A</i> , 2004 , 70,	2.6	144
84	Quasi-2D Bose-Einstein condensation in an optical lattice. <i>Europhysics Letters</i> , 2002 , 57, 1-6	1.6	99
83	Experimental realization of quantum zeno dynamics. <i>Nature Communications</i> , 2014 , 5, 3194	17.4	98
82	Quantum physics exploring gravity in the outer solar system: the SAGAS project. <i>Experimental Astronomy</i> , 2009 , 23, 651-687	1.3	84
81	Quantum Internet: Networking Challenges in Distributed Quantum Computing. <i>IEEE Network</i> , 2020 , 34, 137-143	11.4	72
80	Optically induced lensing effect on a Bose-Einstein condensate expanding in a moving lattice. <i>Physical Review Letters</i> , 2003 , 91, 240405	7.4	58
79	Collective atomic recoil in a moving Bose-Einstein condensate: From superradiance to Bragg scattering. <i>Physical Review A</i> , 2005 , 71,	2.6	58
78	Resolving and addressing atoms in individual sites of a CO ₂ -laser optical lattice. <i>Physical Review A</i> , 2000 , 62,	2.6	54
77	Collective excitations of a trapped Bose-Einstein condensate in the presence of a 1D optical lattice. <i>Physical Review Letters</i> , 2003 , 90, 140405	7.4	49
76	Magneto-optical trapping of Fermionic potassium atoms. <i>Physical Review A</i> , 1998 , 57, 1136-1138	2.6	48
75	Squeezing a thermal mechanical oscillator by stabilized parametric effect on the optical spring. <i>Physical Review Letters</i> , 2014 , 112, 023601	7.4	43

74	Superradiant light scattering from a moving Bose-Einstein condensate. <i>Optics Communications</i> , 2004 , 233, 155-160	2	43
73	Electromagnetically induced transparency in cold free atoms: Test of a sum rule for nonlinear optics. <i>Physical Review A</i> , 1997 , 56, 2221-2224	2.6	41
72	Photostable Molecules on Chip: Integrated Sources of Nonclassical Light. <i>ACS Photonics</i> , 2018 , 5, 126-130.3	3	37
71	Classical signature of ponderomotive squeezing in a suspended mirror resonator. <i>Physical Review Letters</i> , 2010 , 104, 073601	7.4	35
70	IEEE 802.15.7-Compliant Ultra-Low Latency Relaying VLC System for Safety-Critical ITS. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 12040-12051	6.8	34
69	Gain without inversion on the cesium D1 line. <i>Optics Communications</i> , 1997 , 139, 31-34	2	33
68	Dynamics of a Bose-Einstein condensate at finite temperature in an atom-optical coherence filter. <i>Physical Review A</i> , 2002 , 66,	2.6	33
67	Beaming light from a quantum emitter with a planar optical antenna. <i>Light: Science and Applications</i> , 2017 , 6, e16245	16.7	31
66	Birefringence in electromagnetically induced transparency. <i>Optics Letters</i> , 1997 , 22, 736-8	3	29
65	Trapping and cooling of potassium isotopes in a double-magneto-optical-trap apparatus. <i>Physical Review A</i> , 1999 , 59, 886-888	2.6	29
64	Self-Assembled Nanocrystals of Polycyclic Aromatic Hydrocarbons Show Photostable Single-Photon Emission. <i>ACS Nano</i> , 2018 , 12, 4295-4303	16.7	27
63	Collective excitations of a 87 Rb Bose condensate in the Thomas-Fermi regime. <i>Europhysics Letters</i> , 2000 , 49, 8-13	1.6	27
62	A multi-state interferometer on an atom chip. <i>New Journal of Physics</i> , 2013 , 15, 043002	2.9	25
61	Stochastic quantum Zeno by large deviation theory. <i>New Journal of Physics</i> , 2016 , 18, 013048	2.9	25
60	Robust luminescence of the silicon-vacancy center in diamond at high temperatures. <i>AIP Advances</i> , 2015 , 5, 127117	1.5	24
59	Matter wave explorer of gravity (MWXG). <i>Experimental Astronomy</i> , 2009 , 23, 611-649	1.3	24
58	Frequency-noise cancellation in optomechanical systems for ponderomotive squeezing. <i>Physical Review A</i> , 2014 , 89,	2.6	22
57	Detection of weak stochastic forces in a parametrically stabilized micro-optomechanical system. <i>Physical Review A</i> , 2014 , 89,	2.6	22

56	Single-molecule study for a graphene-based nano-position sensor. <i>New Journal of Physics</i> , 2014 , 16, 113007	2.7	21
55	Field trial of a three-state quantum key distribution scheme in the Florence metropolitan area. <i>EPJ Quantum Technology</i> , 2019 , 6,	6.9	21
54	Ultralow-dissipation micro-oscillator for quantum optomechanics. <i>Physical Review A</i> , 2012 , 86,	2.6	20
53	A low-deformation mirror micro-oscillator with ultra-low optical and mechanical losses. <i>Applied Physics Letters</i> , 2012 , 101, 071101	3.4	20
52	Electromagnetically induced transparency in a Bose-Einstein condensate. <i>Optics Communications</i> , 2002 , 211, 159-165	2	18
51	Highly anomalous group velocity of light in ultracold rubidium gases. <i>Physical Review A</i> , 2001 , 63,	2.6	18
50	Superresolution of pulsed multiphoton Raman transitions. <i>Physical Review Letters</i> , 2001 , 87, 113601	7.4	18
49	Burger et al. Reply:. <i>Physical Review Letters</i> , 2002 , 89,	7.4	18
48	Optical double-resonance spectroscopy of trapped Cs atoms: hyperfine structure of the 8s and 6d excited states. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1995 , 34, 91-95		17
47	Necklace State Hallmark in Disordered 2D Photonic Systems. <i>ACS Photonics</i> , 2015 , 2, 1636-1643	6.3	16
46	Controlling potential traps for filtering solitons in Bose-Einstein condensates. <i>JETP Letters</i> , 2004 , 80, 535-539	1.2	16
45	Hidden order in bosonic gases confined in one-dimensional optical lattices. <i>New Journal of Physics</i> , 2010 , 12, 013002	2.9	15
44	Ergodicity in randomly perturbed quantum systems. <i>Quantum Science and Technology</i> , 2017 , 2, 015007	5.5	14
43	Optimal preparation of quantum states on an atom-chip device. <i>Physical Review A</i> , 2016 , 93,	2.6	13
42	Experimental perspectives for systems based on long-range interactions. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010 , 2010, P06009	1.9	13
41	Dynamics of a trapped Bose-Einstein condensate in the presence of a one-dimensional optical lattice. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2003 , 5, S17-S22		12
40	Experimental test of exchange fluctuation relations in an open quantum system. <i>Physical Review Research</i> , 2020 , 2,	3.9	11
39	Experimental proof of quantum Zeno-assisted noise sensing. <i>New Journal of Physics</i> , 2019 , 21, 113056	2.9	11

38	A 3D Polymeric Platform for Photonic Quantum Technologies. <i>Advanced Quantum Technologies</i> , 2020 , 3, 2000004	4.3	10
37	Low-Loss Optomechanical Oscillator for Quantum-Optics Experiments. <i>Physical Review Applied</i> , 2015 , 3,	4.3	9
36	Fabrication of low loss MOMS resonators for quantum optics experiments. <i>Journal of Micromechanics and Microengineering</i> , 2013 , 23, 085010	2	9
35	Coherent scattering of a multiphoton quantum superposition by a mirror BEC. <i>Physical Review Letters</i> , 2010 , 104, 050403	7.4	9
34	Inhomogeneous mechanical losses in micro-oscillators with high reflectivity coating. <i>Journal of Applied Physics</i> , 2012 , 111, 113109	2.5	9
33	Design of silicon micro-resonators with low mechanical and optical losses for quantum optics experiments. <i>Microsystem Technologies</i> , 2014 , 20, 907-917	1.7	7
32	Quantum state reconstruction on atom-chips. <i>New Journal of Physics</i> , 2015 , 17, 093024	2.9	7
31	From superradiant Rayleigh scattering to Bragg scattering. <i>European Physical Journal D</i> , 2005 , 32, 167-170,		7
30	Full characterization of the loading of a magneto-optical trap from an alkali metal dispenser. <i>European Physical Journal D</i> , 2005 , 36, 101-104	1.3	7
29	Temperature-selective trapping of atoms in a dark state by means of quantum interference. <i>Optics Letters</i> , 1997 , 22, 1107-9	3	6
28	An optical lattice with single lattice site optical control for quantum engineering. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2000 , 2, 645-650		6
27	Measurement-based VLC channel characterization for I2V communications in a real urban scenario. <i>Vehicular Communications</i> , 2021 , 28, 100305	5.7	6
26	Reading the phase of a Raman excitation with a multi-state atomic interferometer. <i>Optics Express</i> , 2014 , 22, 19141-8	3.3	5
25	Radiation pressure excitation and cooling of a cryogenic micro-mechanical systems cavity. <i>Journal of Applied Physics</i> , 2009 , 106, 013108	2.5	5
24	A Method for Filtering and Controlling Soliton States of Bose-Einstein Condensates. <i>Physica Scripta</i> , 2005 , 10	2.6	5
23	Conditional phase-shift enhancement through dynamical Rydberg blockade. <i>Europhysics Letters</i> , 2017 , 120, 54002	1.6	4
22	Doppler-free excitation of the weak $6S\ 1/2-8P\ 1/2$ cesium transition at 389 nm. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1996 , 38, 31-33		4
21	Experimental-based propagation model for VLC 2017 ,		3

20	Measuring geometric phases with a dynamical quantum Zeno effect in a Bose-Einstein condensate. <i>Physical Review Research</i> , 2019 , 1,	3.9	3
19	MAGNETIC MICROTRAPS FOR QUANTUM CONTROL. <i>International Journal of Quantum Information</i> , 2007 , 05, 23-31	0.8	2
18	Full resolution of the Autler-Townes Zeeman multiplet for cold cesium atoms in three-level Λ type configuration. <i>Canadian Journal of Physics</i> , 1997 , 75, 767-773	1.1	2
17	Toward Fully-Fledged Quantum and Classical Communication Over Deployed Fiber with Up-Conversion Module. <i>Advanced Quantum Technologies</i> , 2021 , 4, 2000156	4.3	2
16	Field Trial of a Finite-Key Quantum Key Distribution System in the Metropolitan Florence Area 2019 ,		2
15	3D Laser Writing Around Lifetime-Limited Quantum Emitters 2019 ,		1
14	Decoherence effects in superradiant light scattering from a moving bose-einstein condensate. <i>Journal of Modern Optics</i> , 2004 , 51, 785-797	1.1	1
13	Slow light amplification in a non-inverted gain medium. <i>Europhysics Letters</i> , 2005 , 69, 938-944	1.6	1
12	Quantum theory of a polarization phase gate in an atomic tripod configuration. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2005 , 99, 264	0.7	0
11	Coupling of single DBT molecules to a graphene monolayer: proof of principle for a graphene nanoruler.. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1728, 16		
10	Degenerate quantum gases manipulation on AtomChips. <i>Physica Scripta</i> , 2012 , T149, 014002	2.6	
9	Control of a Bose-Einstein condensate on a chip by external optical and magnetic potentials. <i>Annals of Physics</i> , 2012 , 327, 2152-2165	2.5	
8	MACROSCOPIC QUANTUM ENTANGLEMENT IN LIGHT REFLECTION FROM BOSE-EINSTEIN CONDENSATES. <i>International Journal of Quantum Information</i> , 2009 , 07, 171-177	0.8	
7	New generation of light sources for applications in spectroscopy 1997 , 245-256		
6	Full resolution of the Autler-Townes Zeeman multiplet for cold cesium atoms in three-level Λ type configuration. <i>Canadian Journal of Physics</i> , 1997 , 75, 767-773	1.1	
5	A PROPOSAL FOR AN OPTICAL IMPLEMENTATION OF A UNIVERSAL QUANTUM PHASE GATE. <i>International Journal of Quantum Information</i> , 2005 , 03, 245-250	0.8	
4	Addressing Single Sites Of A CO ₂ -Laser Optical Lattice 2002 , 275-283		
3	A multiple beam interferometer for Bose-Einstein condensates. <i>Fortschritte Der Physik</i> , 2003 , 51, 295-304.7		

- 2 From Atoms to Single Biomolecules Through Bose-Einstein Condensates: Un Saluto da Firenze per Theodor **2002**, 291-303
- 1 Long-Range Coherence in Bose-Einstein Condensates **2004**, 101-109