

Claudiu Genes

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.

58

papers

3,095

citations

26

h-index

55

g-index

63

ext. papers

3,636

ext. citations

4.4

avg, IF

5.35

L-index

#	Paper	IF	Citations
58	Ground-state cooling of a micromechanical oscillator: Comparing cold damping and cavity-assisted cooling schemes. <i>Physical Review A</i> , 2008 , 77,	2.6	397
57	Conductivity in organic semiconductors hybridized with the vacuum field. <i>Nature Materials</i> , 2015 , 14, 1123-9	27	305
56	Robust entanglement of a micromechanical resonator with output optical fields. <i>Physical Review A</i> , 2008 , 78,	2.6	227
55	Emergence of atom-light-mirror entanglement inside an optical cavity. <i>Physical Review A</i> , 2008 , 77,	2.6	201
54	Strong coupling of a mechanical oscillator and a single atom. <i>Physical Review Letters</i> , 2009 , 103, 063005	7.4	164
53	Cavity-enhanced transport of excitons. <i>Physical Review Letters</i> , 2015 , 114, 196403	7.4	159
52	Strong coupling and long-range collective interactions in optomechanical arrays. <i>Physical Review Letters</i> , 2012 , 109, 223601	7.4	155
51	Cavity-assisted squeezing of a mechanical oscillator. <i>Physical Review A</i> , 2009 , 79,	2.6	154
50	Chapter 2 Quantum Effects in Optomechanical Systems. <i>Advances in Atomic, Molecular and Optical Physics</i> , 2009 , 57, 33-86	1.7	131
49	Micromechanical oscillator ground-state cooling via resonant intracavity optical gain or absorption. <i>Physical Review A</i> , 2009 , 80,	2.6	99
48	Single-atom cavity QED and optomechanics. <i>Physical Review A</i> , 2010 , 81,	2.6	87
47	Atom-membrane cooling and entanglement using cavity electromagnetically induced transparency. <i>Physical Review A</i> , 2011 , 84,	2.6	80
46	Cavity-Enhanced Transport of Charge. <i>Physical Review Letters</i> , 2017 , 119, 223601	7.4	76
45	Simultaneous cooling and entanglement of mechanical modes of a micromirror in an optical cavity. <i>New Journal of Physics</i> , 2008 , 10, 095009	2.9	76
44	Phase-noise induced limitations on cooling and coherent evolution in optomechanical systems. <i>Physical Review A</i> , 2009 , 80,	2.6	70
43	Reconfigurable long-range phonon dynamics in optomechanical arrays. <i>Physical Review Letters</i> , 2014 , 112, 133604	7.4	53
42	Hybrid Mechanical Systems 2014 , 327-351		46

41	Optical lattices with micromechanical mirrors. <i>Physical Review A</i> , 2010 , 82,	2.6	45
40	Self-cooling of a movable mirror to the ground state using radiation pressure. <i>Physical Review A</i> , 2008 , 77,	2.6	42
39	Collectively enhanced optomechanical coupling in periodic arrays of scatterers. <i>Physical Review A</i> , 2013 , 88,	2.6	37
38	Selective protected state preparation of coupled dissipative quantum emitters. <i>Scientific Reports</i> , 2015 , 5, 16231	4.9	33
37	Protected state enhanced quantum metrology with interacting two-level ensembles. <i>Physical Review Letters</i> , 2013 , 111, 123601	7.4	33
36	Langevin Approach to Quantum Optics with Molecules. <i>Physical Review Letters</i> , 2019 , 122, 203602	7.4	32
35	Cavity Antiresonance Spectroscopy of Dipole Coupled Subradiant Arrays. <i>Physical Review Letters</i> , 2017 , 119, 093601	7.4	31
34	Direct observation of ultrafast many-body electron dynamics in an ultracold Rydberg gas. <i>Nature Communications</i> , 2016 , 7, 13449	17.4	30
33	Cavity-assisted mesoscopic transport of fermions: Coherent and dissipative dynamics. <i>Physical Review B</i> , 2018 , 97,	3.3	27
32	Spin squeezing via atom-cavity field coupling. <i>Physical Review A</i> , 2003 , 68,	2.6	25
31	Optomechanical approach to cooling of small polarizable particles in a strongly pumped ring cavity. <i>Physical Review A</i> , 2010 , 81,	2.6	24
30	Hybrid cavity mechanics with doped systems. <i>Physical Review A</i> , 2014 , 90,	2.6	23
29	Ensemble-Induced Strong Light-Matter Coupling of a Single Quantum Emitter. <i>Physical Review Letters</i> , 2020 , 124, 113602	7.4	21
28	Cavity Quantum Electrodynamics with Frequency-Dependent Reflectors. <i>Physical Review Letters</i> , 2019 , 122, 243601	7.4	20
27	Sub-Planck-scale structures in a vibrating molecule in the presence of decoherence. <i>Physical Review A</i> , 2009 , 79,	2.6	18
26	Energy transfer and correlations in cavity-embedded donor-acceptor configurations. <i>Scientific Reports</i> , 2018 , 8, 9050	4.9	17
25	Partial Optomechanical Refrigeration via Multimode Cold-Damping Feedback. <i>Physical Review Letters</i> , 2019 , 123, 203605	7.4	15
24	Enhanced optomechanical readout using optical coalescence. <i>Physical Review A</i> , 2013 , 88,	2.6	13

23	Quantum-correlated motion and heralded entanglement of distant optomechanically coupled objects. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012 , 45, 245501	1.3	12
22	Enhanced collective Purcell effect of coupled quantum emitter systems. <i>Physical Review A</i> , 2019 , 99,	2.6	11
21	Protected subspace Ramsey spectroscopy. <i>Physical Review A</i> , 2014 , 90,	2.6	11
20	Molecule-photon interactions in phononic environments. <i>Physical Review Research</i> , 2020 , 2,	3.9	9
19	Interference effects in hybrid cavity optomechanics. <i>Quantum Science and Technology</i> , 2019 , 4, 024002	5.5	8
18	Generating conditional atomic entanglement by measuring photon number in a single output channel. <i>Physical Review A</i> , 2006 , 73,	2.6	8
17	Nonclassical States of Light and Mechanics 2014 , 25-56		7
16	Time-domain Ramsey interferometry with interacting Rydberg atoms. <i>Physical Review A</i> , 2016 , 94,	2.6	7
15	Laser noise imposed limitations of ensemble quantum metrology. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016 , 49, 245501	1.3	7
14	Super- and subradiance of clock atoms in multimode optical waveguides. <i>New Journal of Physics</i> , 2019 , 21, 025004	2.9	7
13	Molecular polaritonics in dense mesoscopic disordered ensembles. <i>Physical Review Research</i> , 2021 , 3,	3.9	6
12	Multimode cold-damping optomechanics with delayed feedback. <i>Physical Review Research</i> , 2020 , 2,	3.9	5
11	Atomic entanglement generation with reduced decoherence via four-wave mixing. <i>Physical Review A</i> , 2006 , 73,	2.6	4
10	Floquet engineering of molecular dynamics via infrared coupling. <i>Journal of Chemical Physics</i> , 2020 , 153, 234305	3.9	3
9	Prospects of reinforcement learning for the simultaneous damping of many mechanical modes. <i>Scientific Reports</i> , 2020 , 10, 2623	4.9	2
8	Transmissive optomechanical platforms with engineered spatial defects. <i>Physical Review A</i> , 2014 , 90,	2.6	2
7	Cooperative Quantum Phenomena in Light-Matter Platforms. <i>PRX Quantum</i> , 2022 , 3,	6.1	2
6	Ising model in a light-induced quantized transverse field. <i>Physical Review Research</i> , 2020 , 2,	3.9	2

5	Lightmatter interactions in multi-element resonators. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017 , 50, 105502	1.3	1
4	A Realization of a Quasi-Random Walk for Atoms in Time-Dependent Optical Potentials. <i>Atoms</i> , 2015 , 3, 433-449	2.1	1
3	Cooperative spin decoherence and population transfer. <i>Physical Review A</i> , 2006 , 73,	2.6	1
2	Laser refrigeration of gas filled hollow-core fibres. <i>AIP Advances</i> , 2019 , 9, 105213	1.5	0
1	Ramsey interferometry of Rydberg ensembles inside microwave cavities. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018 , 51, 115502	1.3	