

Jan Gieseler

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

1,432
citations

17
h-index

30
g-index

30
ext. papers

1,822
ext. citations

7.9
avg, IF

4.86
L-index

#	Paper	IF	Citations
24	Subkelvin parametric feedback cooling of a laser-trapped nanoparticle. <i>Physical Review Letters</i> , 2012 , 109, 103603	7.4	346
23	Direct Measurement of Photon Recoil from a Levitated Nanoparticle. <i>Physical Review Letters</i> , 2016 , 116, 243601	7.4	176
22	Thermal nonlinearities in a nanomechanical oscillator. <i>Nature Physics</i> , 2013 , 9, 806-810	16.2	158
21	Dynamic relaxation of a levitated nanoparticle from a non-equilibrium steady state. <i>Nature Nanotechnology</i> , 2014 , 9, 358-64	28.7	112
20	Second-harmonic generation from split-ring resonators on a GaAs substrate. <i>Optics Letters</i> , 2009 , 34, 1997-9	3	91
19	Direct measurement of Kramers turnover with a levitated nanoparticle. <i>Nature Nanotechnology</i> , 2017 , 12, 1130-1133	28.7	69
18	Observation of nitrogen vacancy photoluminescence from an optically levitated nanodiamond. <i>Optics Letters</i> , 2013 , 38, 2976-9	3	65
17	Optically levitated nanoparticle as a model system for stochastic bistable dynamics. <i>Nature Communications</i> , 2017 , 8, 15141	17.4	60
16	Macroscopic Quantum Resonators (MAQRO): 2015 update. <i>EPJ Quantum Technology</i> , 2016 , 3,	6.9	57
15	Nonlinear mode coupling and synchronization of a vacuum-trapped nanoparticle. <i>Physical Review Letters</i> , 2014 , 112, 103603	7.4	46
14	Levitated Nanoparticles for Microscopic Thermodynamics-A Review. <i>Entropy</i> , 2018 , 20,	2.8	41
13	Cooling and manipulation of a levitated nanoparticle with an optical fiber trap. <i>Applied Physics Letters</i> , 2015 , 107, 151102	3.4	40
12	Optical tweezers II from calibration to applications: a tutorial. <i>Advances in Optics and Photonics</i> , 2021 , 13, 74	16.7	33
11	Single-Spin Magnetomechanics with Levitated Micromagnets. <i>Physical Review Letters</i> , 2020 , 124, 163604	7.4	28
10	Cooling Mechanical Oscillators by Coherent Control. <i>Physical Review Letters</i> , 2016 , 117, 163601	7.4	24
9	Non-equilibrium steady state of a driven levitated particle with feedback cooling. <i>New Journal of Physics</i> , 2015 , 17, 045011	2.9	23
8	Resolved-Sideband Cooling of a Levitated Nanoparticle in the Presence of Laser Phase Noise. <i>Physical Review Letters</i> , 2019 , 123, 153601	7.4	20

7	Quantum Acoustomechanics with a Micromagnet. <i>Physical Review Letters</i> , 2020 , 124, 093602	7.4	15
6	Theory of quantum acoustomagnonics and acoustomechanics with a micromagnet. <i>Physical Review B</i> , 2020 , 101,	3.3	10
5	Hybrid architecture for engineering magnonic quantum networks. <i>Physical Review A</i> , 2019 , 100,	2.6	8
4	Single Particle Thermodynamics with Levitated Nanoparticles. <i>Fundamental Theories of Physics</i> , 2018 , 853-885	0.8	5
3	Levitated nanoparticle as a classical two-level atom [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017 , 34, C52	1.7	2
2	Efficient Entanglement of Spin Qubits Mediated by a Hot Mechanical Oscillator. <i>Physical Review Letters</i> , 2021 , 126, 250505	7.4	1
1	The sandwich in the middle: using collective effects for stronger optomechanical coupling. <i>New Journal of Physics</i> , 2018 , 20, 101001	2.9	1