

James Millen

List of Publications by Year in descending order

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38
papers

1,795
citations

304743

22
h-index

434195

31
g-index

38
all docs

38
docs citations

38
times ranked

1310
citing authors

#	ARTICLE	IF	CITATIONS
1	Cavity Cooling a Single Charged Levitated Nanosphere. <i>Physical Review Letters</i> , 2015, 114, 123602.	7.8	228
2	Nanoscale temperature measurements using non-equilibrium Brownian dynamics of a levitated nanosphere. <i>Nature Nanotechnology</i> , 2014, 9, 425-429.	31.5	223
3	Optomechanics with levitated particles. <i>Reports on Progress in Physics</i> , 2020, 83, 026401.	20.1	155
4	Perspective on quantum thermodynamics. <i>New Journal of Physics</i> , 2016, 18, 011002.	2.9	143
5	Nonlinear Dynamics and Strong Cavity Cooling of Levitated Nanoparticles. <i>Physical Review Letters</i> , 2016, 117, 173602.	7.8	119
6	Full rotational control of levitated silicon nanorods. <i>Optica</i> , 2017, 4, 356.	9.3	105
7	Many-body physics with alkaline-earth Rydberg lattices. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 184010.	1.5	84
8	Optically driven ultra-stable nanomechanical rotor. <i>Nature Communications</i> , 2017, 8, 1670.	12.8	83
9	Probing macroscopic quantum superpositions with nanorotors. <i>New Journal of Physics</i> , 2018, 20, 122001.	2.9	66
10	Levitated Nanoparticles for Microscopic Thermodynamics—A Review. <i>Entropy</i> , 2018, 20, 326.	2.2	65
11	Spectroscopy of strontium Rydberg states using electromagnetically induced transparency. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007, 40, F319-F325.	1.5	54
12	Two-Electron Excitation of an Interacting Cold Rydberg Gas. <i>Physical Review Letters</i> , 2010, 105, 213004.	7.8	48
13	Dynamics of levitated nanospheres: towards the strong coupling regime. <i>New Journal of Physics</i> , 2013, 15, 015001.	2.9	45
14	Optomechanical cooling of levitated spheres with doubly resonant fields. <i>Physical Review A</i> , 2012, 85, .	2.5	40
15	Silicon microcavity arrays with open access and a finesse of half a million. <i>Light: Science and Applications</i> , 2019, 8, 37.	16.6	40
16	Levitated electromechanics: all-electrical cooling of charged nano- and micro-particles. <i>Quantum Science and Technology</i> , 2019, 4, 024003.	5.8	35
17	Quantum experiments with microscale particles. <i>Contemporary Physics</i> , 2020, 61, 155-168.	1.8	33
18	Quantum cooling and squeezing of a levitating nanosphere via time-continuous measurements. <i>New Journal of Physics</i> , 2015, 17, 073019.	2.9	31

#	ARTICLE	IF	CITATIONS
19	Quantum sensing with nanoparticles for gravimetry: when bigger is better. <i>Advanced Optical Technologies</i> , 2020, 9, 227-239.	1.7	30
20	Spectroscopy of a cold strontium Rydberg gas. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 184001.	1.5	28
21	Modulation-free pump-probe spectroscopy of strontium atoms. <i>European Physical Journal D</i> , 2010, 57, 151-154.	1.3	24
22	Quantum electromechanics with levitated nanoparticles. <i>Npj Quantum Information</i> , 2020, 6, .	6.7	22
23	Simultaneous cooling of coupled mechanical oscillators using whispering gallery mode resonances. <i>Optics Express</i> , 2016, 24, 1392.	3.4	21
24	A vapor cell based on dispensers for laser spectroscopy. <i>Review of Scientific Instruments</i> , 2009, 80, 013101.	1.3	19
25	Nanoparticle detection in an open-access silicon microcavity. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	18
26	The rise of the quantum machines. <i>Physics World</i> , 2016, 29, 23-26.	0.0	9
27	Direct and Clean Loading of Nanoparticles into Optical Traps at Millibar Pressures. <i>Photonics</i> , 2021, 8, 458.	2.0	9
28	Cooling and manipulation of nanoparticles in high vacuum. <i>Proceedings of SPIE</i> , 2016, , .	0.8	6
29	Single Particle Thermodynamics with Levitated Nanoparticles. <i>Fundamental Theories of Physics</i> , 2018, , 853-885.	0.3	5
30	Cooling the centre-of-mass motion of a silica microsphere. , 2014, , .		3
31	Nonlinear dynamics and cavity cooling of levitated nanoparticles. <i>Proceedings of SPIE</i> , 2016, , .	0.8	3
32	Cooling optically trapped particles. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
33	Cavity cooling a trapped nanosphere in vacuum. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
34	Cooling the mechanical motion of a tapered optical fiber and a microsphere-cantilever using whispering gallery modes. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
35	Making space for nonlocality. <i>Physics World</i> , 2016, 29, 38-39.	0.0	0
36	Squeezed Environment Boosts Engine Performance. <i>Physics Magazine</i> , 2017, 10, .	0.1	0

#	ARTICLE	IF	CITATIONS
37	An odd couple. Nature Physics, 2021, 17, 167-168.	16.7	0
38	Tutorial on optomechanics (Conference Presentation). , 2017, , .		0