

Tim Freegarde

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.

29
papers

294
citations

10
h-index

15
g-index

33
ext. papers

373
ext. citations

2.6
avg, IF

2.97
L-index

#	Paper	IF	Citations
29	Scattering theory of cooling and heating in optomechanical systems. <i>Physical Review A</i> , 2009 , 79,	2.6	40
28	General analysis of type I second-harmonic generation with elliptical Gaussian beams. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1997 , 14, 2010	1.7	28
27	Composite pulses for interferometry in a thermal cold atom cloud. <i>Physical Review A</i> , 2014 , 90,	2.6	27
26	Cavity-enhanced optical bottle beam as a mechanical amplifier. <i>Physical Review A</i> , 2002 , 66,	2.6	20
25	OH detection by absorption of frequency-doubled diode laser radiation at 308 nm. <i>Chemical Physics Letters</i> , 2000 , 319, 125-130	2.5	19
24	Fractional adiabatic passage in two-level systems: Mirrors and beam splitters for atomic interferometry. <i>Physical Review A</i> , 2007 , 76,	2.6	17
23	Optomechanical cooling with generalized interferometers. <i>Physical Review Letters</i> , 2010 , 105, 013602	7.4	15
22	Optimal control of mirror pulses for cold-atom interferometry. <i>Physical Review A</i> , 2018 , 98,	2.6	14
21	On the design of enhancement cavities for second harmonic generation. <i>Optics Communications</i> , 2001 , 199, 435-446	2	14
20	Magneto-optical trapping and background-free imaging for atoms near nanostructured surfaces. <i>Optics Express</i> , 2009 , 17, 23003-9	3.3	13
19	Atom cooling using the dipole force of a single retroflected laser beam. <i>Physical Review A</i> , 2009 , 80,	2.6	9
18	Algorithmic cooling in a momentum state quantum computer. <i>Physical Review Letters</i> , 2003 , 91, 037904	7.4	9
17	Optimal control of Raman pulse sequences for atom interferometry. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020 , 53, 085006	1.3	8
16	Introduction to the Physics of Waves 2012 ,		8
15	Stabilized fiber-optic Mach-Zehnder interferometer for carrier-frequency rejection. <i>Applied Optics</i> , 2013 , 52, 5713-7	1.7	7
14	Stimulated Raman transitions via multiple atomic levels. <i>Physical Review A</i> , 2010 , 81,	2.6	7
13	Interferometric Laser Cooling of Atomic Rubidium. <i>Physical Review Letters</i> , 2015 , 115, 073004	7.4	6

12	Coherent amplification in laser cooling and trapping. <i>Physical Review A</i> , 2006 , 73,	2.6	6
11	Actively stabilized wavelength-insensitive carrier elimination from an electro-optically modulated laser beam. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012 , 29, 646	1.7	5
10	Cavity-enhanced toroidal dipole force traps for dark-field seeking species. <i>Optics Communications</i> , 2002 , 201, 99-104	2	5
9	Matterwave interferometric velocimetry of cold Rb atoms. <i>Journal of Modern Optics</i> , 2018 , 65, 657-666	1.1	4
8	Amplified optomechanics in a unidirectional ring cavity. <i>Journal of Modern Optics</i> , 2011 , 58, 1342-1348	1.1	4
7	Biselective pulses for large-area atom interferometry. <i>Physical Review A</i> , 2020 , 101,	2.6	2
6	Optical Cooling of Atoms in Microtraps by Time-Delayed Reflection. <i>Journal of Computational and Theoretical Nanoscience</i> , 2010 , 7, 1747-1753	0.3	2
5	Velocimetry of cold atoms by matter-wave interferometry. <i>Physical Review A</i> , 2019 , 99,	2.6	1
4	MIRROR-MEDIATED COOLING: A PARADIGM FOR PARTICLE COOLING VIA THE RETARDED DIPOLE FORCE. <i>Annual Review of Cold Atoms and Molecules</i> , 2013 , 351-376		1
3	Scattering theory of multilevel atoms interacting with arbitrary radiation fields. <i>Physica Scripta</i> , 2010 , T140, 014010	2.6	1
2	A simple interlocked controller for research vacuum systems. <i>Measurement Science and Technology</i> , 2001 , 12, N43-N46	2	
1	The Design of Enhancement Cavities for Second Harmonic Generation 2002 , 345-353		