

Tim Freegarde

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

445
citations

759190

12
h-index

752679

20
g-index

33
all docs

33
docs citations

33
times ranked

380
citing authors

#	ARTICLE	IF	CITATIONS
1	Composite pulses for interferometry in a thermal cold atom cloud. <i>Physical Review A</i> , 2014, 90, .	2.5	51
2	Scattering theory of cooling and heating in optomechanical systems. <i>Physical Review A</i> , 2009, 79, .	2.5	49
3	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.	2.1	36
4	Optimal control of Raman pulse sequences for atom interferometry. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 085006.	1.5	33
5	Optimal control of mirror pulses for cold-atom interferometry. <i>Physical Review A</i> , 2018, 98, .	2.5	32
6	Cavity-enhanced optical bottle beam as a mechanical amplifier. <i>Physical Review A</i> , 2002, 66, .	2.5	25
7	OH detection by absorption of frequency-doubled diode laser radiation at 308 nm. <i>Chemical Physics Letters</i> , 2000, 319, 125-130.	2.6	22
8	Optomechanical Cooling with Generalized Interferometers. <i>Physical Review Letters</i> , 2010, 105, 013602.	7.8	22
9	Fractional adiabatic passage in two-level systems: Mirrors and beam splitters for atomic interferometry. <i>Physical Review A</i> , 2007, 76, .	2.5	20
10	Magneto-optical trapping and background-free imaging for atoms near nanostructured surfaces. <i>Optics Express</i> , 2009, 17, 23003.	3.4	16
11	On the design of enhancement cavities for second harmonic generation. <i>Optics Communications</i> , 2001, 199, 435-446.	2.1	15
12	Biselective pulses for large-area atom interferometry. <i>Physical Review A</i> , 2020, 101, .	2.5	14
13	Stimulated Raman transitions via multiple atomic levels. <i>Physical Review A</i> , 2010, 81, .	2.5	13
14	Algorithmic Cooling in a Momentum State Quantum Computer. <i>Physical Review Letters</i> , 2003, 91, 037904.	7.8	11
15	Atom cooling using the dipole force of a single retroflected laser beam. <i>Physical Review A</i> , 2009, 80, .	2.5	11
16	Stabilized fiber-optic Mach-Zehnder interferometer for carrier-frequency rejection. <i>Applied Optics</i> , 2013, 52, 5713.	1.8	8
17	Velocimetry of cold atoms by matter-wave interferometry. <i>Physical Review A</i> , 2019, 99, .	2.5	8
18	Coherent amplification in laser cooling and trapping. <i>Physical Review A</i> , 2006, 73, .	2.5	7

#	ARTICLE	IF	CITATIONS
19	Interferometric Laser Cooling of Atomic Rubidium. Physical Review Letters, 2015, 115, 073004.	7.8	7
20	Amplified optomechanics in a unidirectional ring cavity. Journal of Modern Optics, 2011, 58, 1342-1348.	1.3	6
21	Actively stabilized wavelength-insensitive carrier elimination from an electro-optically modulated laser beam. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 646.	2.1	6
22	Cavity-enhanced toroidal dipole force traps for dark-field seeking species. Optics Communications, 2002, 201, 99-104.	2.1	5
23	Scattering theory of multilevel atoms interacting with arbitrary radiation fields. Physica Scripta, 2010, T140, 014010.	2.5	5
24	Matterwave interferometric velocimetry of cold Rb atoms. Journal of Modern Optics, 2018, 65, 657-666.	1.3	5
25	Optical Cooling of Atoms in Microtraps by Time-Delayed Reflection. Journal of Computational and Theoretical Nanoscience, 2010, 7, 1747-1753.	0.4	2
26	Topical issue on cold quantum matter. European Physical Journal D, 2011, 65, 1-2.	1.3	2
27	New cooling mechanisms for atoms and molecules. Journal of Modern Optics, 2011, 58, 1297-1299.	1.3	1
28	MIRROR-MEDIATED COOLING: A PARADIGM FOR PARTICLE COOLING VIA THE RETARDED DIPOLE FORCE. Annual Review of Cold Atoms and Molecules, 2013, , 351-376.	2.8	1
29	A simple interlocked controller for research vacuum systems. Measurement Science and Technology, 2001, 12, N43-N46.	2.6	0
30	Can optimised pulses improve the sensitivity of atom interferometers?. , 2021, , .		0
31	The Design of Enhancement Cavities for Second Harmonic Generation. , 2002, , 345-353.		0