M G Boshier

List of Publications by Year
in descending order

56	3,346	147786	233409
papers	citations	31 h-index	45 g-index

56	56	56	2280
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental demonstration of painting arbitrary and dynamic potentials for Boseâ€“Einstein condensates. New Journal of Physics, 2009, 11, 043030.	2.9	408
2	Measurement of the Casimir-Polder force. Physical Review Letters, 1993, 70, 560-563.	7.8	370
3	High Precision Measurements of the Ground State Hyperfine Structure Interval of Muonium and of the Muon Magnetic Moment. Physical Review Letters, 1999, 82, 711-714.	7.8	239
4	Experimental Realization of Josephson Junctions for an Atom SQUID. Physical Review Letters, 2013, 111, 205301.	7.8	207
5	A simple extended-cavity diode laser. Review of Scientific Instruments, 1998, 69, 1236-1239.	1.3	173
6	Realization of a Magnetic Mirror for Cold Atoms. Physical Review Letters, 1995, 75, 629-632.	7.8	161
7	Destabilization of dark states and optical spectroscopy in Zeeman-degenerate atomic systems. Physical Review A, 2002, 65, .	2.5	128
8	Two-Wire Waveguide and Interferometer for Cold Atoms. Physical Review Letters, 2001, 86, 1462-1465.	7.8	120
9	Precise Optical Measurement of Lamb Shifts in Atomic Hydrogen. Physical Review Letters, 1995, 75, 2470-2473.	7.8	110
10	Measurement of the1sâ^'2sEnergy Interval in Muonium. Physical Review Letters, 2000, 84, 1136-1139.	7.8	107
11	Shortcuts to adiabaticity in a time-dependent box. Scientific Reports, 2012, 2, 648.	3.3	107
12	Focus on atomtronics-enabled quantum technologies. New Journal of Physics, 2017, 19, 020201.	2.9	89
13	Roadmap on Atomtronics: State of the art and perspective. AVS Quantum Science, 2021, 3, .	4.9	87
14	Magnetic Waveguide for Trapping Cold Atom Gases in Two Dimensions. Physical Review Letters, 1998, 80, 645-649.	7.8	86
15	Reconstruction of a Cold Atom Cloud by Magnetic Focusing. Physical Review Letters, 1999, 82, 468-471.	7.8	76
16	External-cavity frequency-stabilization of visible and infrared semiconductor lasers for high resolution spectroscopy. Optics Communications, 1991, 85, 355-359.	2.1	64
17	Laser spectroscopy of the 1S-2Stransition in hydrogen and deuterium: Determination of the 1SLamb shift and the Rydberg constant. Physical Review A, 1989, 40, 6169-6184.	2.5	62
18	High-sensitivity operation of single-beam optically pumped magnetometer in a kHz frequency range. Measurement Science and Technology, 2017, 28, 035104.	2.6	56

#	Article	IF	Citations
19	Integrated coherent matter wave circuits. New Journal of Physics, 2015, 17, 092002.	2.9	53
20	A measurement of the 1Sâ€“2S transition frequency in muonium. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 187, 247-254.	2.1	50
21	Lifetime of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>A</mml:mi><mml:mrow><mml:mo>(</mml:mo><mml:msup><mml:mi>v</mml:mi><mml:mo>â		
	and Franck-Condon factor of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

#	Article	IF	Citations
37	Diffraction-limited focusing of Boseâ€“Einstein condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 485-494.	1.5	13
38	A High-Sensitivity Tunable Two-Beam Fiber-Coupled High-Density Magnetometer with Laser Heating. Sensors, 2016, 16, 1691.	3.8	11
39	Thermal muonium in vacuo from silica aerogels. Journal of Non-Crystalline Solids, 1992, 145, 244-249.	3.1	10
40	Isotope shifts in ?326.1 nm of CdI. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1987, 6, 315-317.	1.0	5
41	Spectroscopy of the 1S-2S energy splitting in muonium. IEEE Transactions on Instrumentation and Measurement, 1995, 44, 505-509.	4.7	5
42	Fine structure and isotope shift of tritium in the Balmer-Î± transition. Journal of Physics B: Atomic, Molecular and Optical Physics, 1988, 21, 421-430.	1.5	4
43	Pulsed laser spectroscopy in muonium and deuterium. , 2000, 127, 197-200.		4
44	<title>Cold atom reflection from curved magnetic mirrors</title>. , 1997, , .		3
45	Laser Spectroscopy of Simple Atoms. Physica Scripta, 2000, T86, 21.	2.5	3
46	Deflection of an atomic beam by the Casimir force. AIP Conference Proceedings, 1991, , .	0.4	2
47	Improved optical standing-wave beam splitters for dilute Boseâ€“Einstein condensates. Journal of Applied Physics, 2021, 130, .	2.5	2
48	Prospects for high precision measurements on muonic atoms at the front end of a muon collider. , 1998, , .		1
49	Towards a Precise Measurement of the He+ 2S Lamb Shift. , 2001, , 303-313.		1
50	Observation and measurement of the Casimir-Polder force. AIP Conference Proceedings, 1993, , .	0.4	0
51	Spectroscopy of the 1s-2s splitting in muonium. , 0, , .		0
52	Precise laser spectroscopy of hydrogen and singly-ionized helium. , 0, , .		0
53	A precise microwave spectroscopy measurement on the muonium ground state: hyperfine structure interval and muon magnetic moment. , 0, , .		0
54	A precise microwave spectroscopy measurement of the muonium ground state: hyperfine structure interval and muon magnetic moment. , 0, , .		0

#	Article	IF	Citations
55	Measurement of the muonium 1S-2S transition frequency. , 0, , .		0
56	Quantum Simulations in Ion Traps. , 2006, , .		0