Wolf von Klitzing

List of Publications by Year
in descending order

51	1,783	304743	265206
papers	citations	22 h-index	42 g-index

54	54	54	1662
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Atomtronic Matter-Wave Lensing. Physical Review Letters, 2021, 126, 170402.	7.8	20
2	Quantum technologies in space. Experimental Astronomy, 2021, 51, 1677-1694.	3.7	23
3	Stationary states of Boseâ€“Einstein condensed atoms rotating in an asymmetric ring potential. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 145303.	1.5	4
4	Exploring the foundations of the physical universe with space tests of the equivalence principle. Experimental Astronomy, 2021, 51, 1695-1736.	3.7	20
5	Roadmap on Atomtronics: State of the art and perspective. AVS Quantum Science, 2021, 3, .	4.9	87
6	Decoherence-free radio-frequency-dressed subspaces. Physical Review A, 2021, 104, .	2.5	3
7	ELGARâ€”a European Laboratory for Gravitation and Atom-interferometric Research. Classical and Quantum Gravity, 2020, 37, 225017.	4.0	63
8	AEDGE: Atomic Experiment for Dark Matter and Gravity Exploration in Space. EPJ Quantum Technology, 2020, 7, .	6.3	190
9	Transition from the mean-field to the bosonic Laughlin state in a rotating Bose-Einstein condensate. Physical Review A, 2019, 100, .	2.5	1
10	Precise and robust optical beam steering for space optical instrumentation. CEAS Space Journal, 2019, 11, 589-595.	2.3	5
11	Hypersonic Boseâ€“Einstein condensates in accelerator rings. Nature, 2019, 570, 205-209.	27.8	60
12	Fragility of the bosonic Laughlin state. Physical Review A, 2019, 99, .	2.5	5
13	Bi-chromatic adiabatic shells for atom interferometry. New Journal of Physics, 2019, 21, 123039.	2.9	6
14	SAGE: A proposal for a space atomic gravity explorer. European Physical Journal D, 2019, 73, 1.	1.3	75
15	Microwave spectroscopy of radio-frequency-dressed <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Rb</mml:mi><mml:mprescripts /><mml:none /><mml:mn>87</mml:mn></mml:mmultiscripts></mml:math>. Physical Review A, 2019, 100, .	2.5	7
16	Optical beam steering on distribution boards and its application for atom quantum experiments in space. , 2019, , .		1
17	An optical distribution board for atom quantum experiments in space (a numerical analysis). , 2019, , .		0
18	Antireflection coated semiconductor laser amplifier for Bose-Einstein condensation experiments. AIP Advances, 2018, 8, 095020.	1.3	0

#	Article	IF	Citations
19	Simple precision measurements of optical beam sizes. Applied Optics, 2018, 57, 9863.	1.8	11
20	Matter-wave interferometers using TAAP rings. New Journal of Physics, 2016, 18, 075014.	2.9	65
21	Towards rotation sensing with a single atomic clock. Proceedings of SPIE, 2016, , .	0.8	1
22	Design of a dual species atom interferometer for space. Experimental Astronomy, 2015, 39, 167-206.	3.7	48
23	Fundamentals of cavity-enhanced polarimetry for parity-nonconserving optical rotation measurements: Application to Xe, Hg, and I. Physical Review A, 2014, 89, .	2.5	25
24	STE-QUESTâ€"test of the universality of free fall using cold atom interferometry. Classical and Quantum Gravity, 2014, 31, 115010.	4.0	159
25	An ultra-bright atom laser. New Journal of Physics, 2014, 16, 033036.	2.9	17
26	A simple and highly reliable laser system with microwave generated repumping light for cold atom experiments. Optics Communications, 2013, 290, 110-114.	2.1	4
27	Accelerating and abruptly autofocusing matter waves. Physical Review A, 2013, 87, .	2.5	80
28	Focus on modern frontiers of matter wave optics and interferometry. New Journal of Physics, 2012, 14, 125006.	2.9	26
29	Cavity-Enhanced Parity-Nonconserving Optical Rotation in Metastable Xe and Hg. Physical Review Letters, 2012, 108, 210801.	7.8	30
30	Atom number calibration in absorption imaging at very small atom numbers. Open Physics, 2012, 10, .	1.7	5
31	A gradient and offset compensated Ioffeâ€"Pritchard trap for Boseâ€"Einstein condensation experiments. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 235301.	1.5	2
32	Ultra-sensitive atom imaging for matter-wave optics. New Journal of Physics, 2011, 13, 115012.	2.9	22
33	Double-pass tapered amplifier diode laser with an output power of 1 W for an injection power of only 200â€‰Î¼W. Review of Scientific Instruments, 2010, 81, 113108.	1.3	22
34	Time-Averaged Adiabatic Potentials: Versatile Matter-Wave Guides and Atom Traps. Physical Review Letters, 2007, 99, 083001.	7.8	94
35	Spontaneous Emergence of Angular Momentum Josephson Oscillations in Coupled Annular Bose-Einstein Condensates. Physical Review Letters, 2007, 98, 050401.	7.8	30
36	Publisherâ€™s Note: Time-Averaged Adiabatic Potentials: Versatile Matter-Wave Guides and Atom Traps [Phys. Rev. Lett.99, 083001 (2007)]. Physical Review Letters, 2007, 99, .	7.8	4

#	Article	IF	Citations
37	BOSE-EINSTEIN CONDENSATES STUDIED WITH A LINEAR ACCELERATOR. , 2005, , .		0
38	Shape oscillations in nondegenerate Bose gases: Transition from the collisionless to the hydrodynamic regime. Physical Review A, 2005, 72, .	2.5	19
39	Interferometric Determination of thesandd-Wave Scattering Amplitudes inRb87. Physical Review Letters, 2004, 93, 173202.	7.8	81
40	Compact tunable diode laser with diffraction-limited 1 Watt for atom cooling and trapping. , 2004, , .		12
41	Hydrodynamic clouds and Bose-Einstein condensation. European Physical Journal Special Topics, 2004, 116, 211-217.	0.2	2
42	Hydrodynamic behavior in expanding thermal clouds of87Rb. Physical Review A, 2003, 68, .	2.5	19
43	BoseÂEinstein condensation in a magnetic double-well potential. Journal of Optics B: Quantum and Semiclassical Optics, 2003, 5, S119-S123.	1.4	36
44	Bose-Einstein Condensation into Nonequilibrium States Studied by Condensate Focusing. Physical Review Letters, 2002, 89, 270404.	7.8	99
45	Frequency tuning of the whispering-gallery modes of silica microspheres for cavity quantum electrodynamics and spectroscopy. Optics Letters, 2001, 26, 166.	3.3	93
46	Tunable whispering gallery modes for spectroscopy and CQED experiments. New Journal of Physics, 2001, 3, 14-14.	2.9	101
47	Very low threshold green lasing in microspheres by up-conversion of IR photons. Journal of Optics B: Quantum and Semiclassical Optics, 2000, 2, 204-206.	1.4	55
48	Very low threshold lasing in Er3+ doped ZBLAN microsphere. Electronics Letters, 1999, 35, 1745.	1.0	33
49	Practical issues in the development of saturation spectroscopy at ultra-high resolution. Measurement Science and Technology, 1998, 9, 417-421.	2.6	0
50	AEDGE: Atomic experiment for dark matter and gravity exploration in space. Experimental Astronomy, 0, , 1.	3.7	9
51	Focus on Supersymmetry in Physics. New Journal of Physics, 0, 3, .	2.9	1