

John Debs

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,203
citations

394421

19
h-index

477307

29
g-index

30
all docs

30
docs citations

30
times ranked

1048
citing authors

#	ARTICLE	IF	CITATIONS
1	Bright Solitonic Matter-Wave Interferometer. Physical Review Letters, 2014, 113, 013002.	7.8	125
2	Precision atomic gravimeter based on Bragg diffraction. New Journal of Physics, 2013, 15, 023009.	2.9	104
3	Cold-atom gravimetry with a Bose-Einstein condensate. Physical Review A, 2011, 84, .	2.5	103
4	Why momentum width matters for atom interferometry with Bragg pulses. New Journal of Physics, 2012, 14, 023009.	2.9	99
5	Atom lasers: Production, properties and prospects for precision inertial measurement. Physics Reports, 2013, 529, 265-296.	25.6	89
6	$\langle \mathbf{p} \rangle = \hbar \mathbf{k}$ separation with Bloch oscillations in an optically guided atom interferometer. Physical Review A, 2013, 88, .	2.5	85
7	Simultaneous Precision Gravimetry and Magnetic Gradiometry with a Bose-Einstein Condensate: A High Precision, Quantum Sensor. Physical Review Letters, 2016, 117, 138501.	7.8	80
8	11 W narrow linewidth laser source at 780nm for laser cooling and manipulation of Rubidium. Optics Express, 2012, 20, 8915.	3.4	75
9	Coherent 455 nm beam production in a cesium vapor. Optics Letters, 2009, 34, 2321.	3.3	64
10	External cavity diode lasers with 5kHz linewidth and 200nm tuning range at 1551/4m and methods for linewidth measurement. Optics Express, 2014, 22, 10642.	3.4	46
11	Collapse and three-body loss in a ⁸⁵ Rb Bose-Einstein condensate. Physical Review A, 2011, 84, .	2.5	43
12	Optically guided linear Mach-Zehnder atom interferometer. Physical Review A, 2013, 87, .	2.5	37
13	⁸⁵ Rb tunable-interaction Bose-Einstein condensate machine. Review of Scientific Instruments, 2010, 81, 063103.	1.3	35
14	A Bose-condensed, simultaneous dual-species Mach-Zehnder atom interferometer. New Journal of Physics, 2014, 16, 073035.	2.9	31
15	Quantum-projection-noise-limited interferometry with coherent atoms in a Ramsey-type setup. Physical Review A, 2010, 81, .	2.5	25
16	Role of source coherence in atom interferometry. Physical Review A, 2014, 89, .	2.5	24
17	Piezo-locking a diode laser with saturated absorption spectroscopy. Applied Optics, 2008, 47, 5163.	2.1	22
18	Optically trapped atom interferometry using the clock transition of large ⁸⁷ Rb Bose-Einstein condensates. New Journal of Physics, 2011, 13, 065020.	2.9	21

#	ARTICLE	IF	CITATIONS
19	A faster scaling in acceleration-sensitive atom interferometers. Europhysics Letters, 2014, 105, 63001.	2.0	20
20	A Fundamental Study Into the Surface Functionalization of Soft Glass Microstructured Optical Fibers via Silane Coupling Agents. Journal of Lightwave Technology, 2009, 27, 576-582.	4.6	14
21	A two-state Raman coupler for coherent atom optics. Optics Express, 2009, 17, 2319.	3.4	11
22	Ramsey interferometry with an atom laser. Optics Express, 2009, 17, 20661.	3.4	11
23	Experimental comparison of Raman and rf outcouplers for high-flux atom lasers. Physical Review A, 2010, 81, .	2.5	11
24	Optically trapped atom interferometry using the clock transition of large ^{87}Rb Bose-Einstein condensates. New Journal of Physics, 2011, 13, 119401.	2.9	10
25	Measurement of inelastic losses in a sample of ultracold ^{85}Rb . Physical Review A, 2010, 81, .	2.5	8
26	Measuring Mass in Seconds. Science, 2013, 339, 532-533.	12.6	3
27	From apples to atoms: measuring gravity with ultra cold atomic test masses. Preview, 2013, 2013, 30-33.	0.1	2
28	Construction and Characterization of External Cavity Diode Lasers for Atomic Physics. Journal of Visualized Experiments, 2014, , .	0.3	1
29	Comparing thermal and lasing atomic sources for precision inertial measurement. , 2011, , .		0