Sven Herrmann

List of Publications by Year
in descending order

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40 papers	2,185 citations	304743 22 h-index	395702 33 g-index
42 all docs	42 docs citations	42 times ranked	1298 citing authors

#	Article	IF	Citations
1	All-optical matter-wave lens using time-averaged potentials. Communications Physics, 2022, 5, .	5.3	4
2	Twin-lattice atom interferometry. Nature Communications, 2021, 12, 2544.	12.8	37
3	Collective-Mode Enhanced Matter-Wave Optics. Physical Review Letters, 2021, 127, 100401.	7.8	52
4	Quantum test of the Universality of Free Fall using rubidium and potassium. European Physical Journal D, 2020, 74, 1.	1.3	24
5	Evaporative cooling from an optical dipole trap in microgravity. Physical Review A, 2020, 101, .	2.5	12
6	Test of the Gravitational Redshift withGalileoSatellites in an Eccentric Orbit. Physical Review Letters, 2018, 121, 231102.	7.8	88
7	BOOST: A satellite mission to test Lorentz invariance using high-performance optical frequency references. Physical Review D, 2018, 97, .	4.7	17
8	Miniaturized Lab System for Future Cold Atom Experiments in Microgravity. Microgravity Science and Technology, 2017, 29, 37-48.	1.4	27
9	A three-layer magnetic shielding for the MAIUS-1 mission on a sounding rocket. Review of Scientific Instruments, 2016, 87, 063101.	1.3	20
10	Macroscopic Quantum Resonators (MAQRO): 2015 update. EPJ Quantum Technology, 2016, 3, .	6.3	77
11	mSTAR: Testing special relativity in space using high performance optical frequency references. , 2015, , .		2
12	Design of a dual species atom interferometer for space. Experimental Astronomy, 2015, 39, 167-206.	3.7	48
13	Atom interferometry in space: Thermal management and magnetic shielding. Review of Scientific Instruments, 2014, 85, 083105.	1.3	7
14	STE-QUESTâ€"test of the universality of free fall using cold atom interferometry. Classical and Quantum Gravity, 2014, 31, 115010.	4.0	159
15	A space-based optical Kennedy-Thorndike experiment testing special relativity. , 2013, , .		3
16	Astrodynamical Space Test of Relativity using Optical Devices I (ASTROD I)â€"a class-M fundamental physics mission proposal for cosmic vision 2015â€“2025: 2010 Update. Experimental Astronomy, 2012, 34, 181-201.	3.7	37
17	Testing the equivalence principle with atomic interferometry. Classical and Quantum Gravity, 2012, 29, 184003.	4.0	50
18	TESTING LORENTZ INVARIANCE. , 2012, , .		0

#	Article	IF	Citations
19	Generating an ultra-stable microwave in the drop tower. , 2011, , .		0
20	Degenerate Quantum Gases in Microgravity. Microgravity Science and Technology, 2011, 23, 287-292.	1.4	22
21	Testing Fundamental Physics with Degenerate Quantum Gases in Microgravity. Microgravity Science and Technology, 2010, 22, 529-538.	1.4	6
22	A Compact Atom Interferometer for Future Space Missions. Microgravity Science and Technology, 2010, 22, 551-561.	1.4	48
23	The Space-Time Asymmetry Research (STAR) program. , 2010, , .		2
24	Noise-Immune Conjugate Large-Area Atom Interferometers. Physical Review Letters, 2009, 103, 050402.	7.8	59
25	Atom Interferometers with Scalable Enclosed Area. Physical Review Letters, 2009, 102, 240403.	7.8	106
26	Atom interferometry tests of local Lorentz invariance in gravity and electrodynamics. Physical Review D, 2009, 80, .	4.7	111
27	6W, 1 kHz linewidth, tunable continuous-wave near-infrared laser. Optics Express, 2009, 17, 5246.	3.4	21
28	Atom-Interferometry Tests of the Isotropy of Post-Newtonian Gravity. Physical Review Letters, 2008, 100, 031101.	7.8	263
29	Multiphoton- and simultaneous conjugate Ramsey-Bordeì•atom interferometers. AIP Conference Proceedings, 2008, , .	0.4	0
30	Atom Interferometry with up to 24-Photon-Momentum-Transfer Beam Splitters. Physical Review Letters, 2008, 100, 180405.	7.8	222
31	Measuring the fine structure constant using multiphoton atom interferometry. , 2008, , .		0
32	Nanosecond electro-optical switching with a repetition rate above 20MHz. Review of Scientific Instruments, 2007, 78, 124702.	1.3	9
33	Tests of Relativity by Complementary Rotating Michelson-Morley Experiments. Physical Review Letters, 2007, 99, 050401.	7.8	119
34	Test of the Isotropy of the Speed of Light Using a Continuously Rotating Optical Resonator. Physical Review Letters, 2005, 95, 150401.	7.8	96
35	Tests of Lorentz invariance using hydrogen molecules. Physical Review D, 2004, 70, .	4.7	37
36	Precision test of the isotropy of light propagation. Applied Physics B: Lasers and Optics, 2003, 77, 719-731.	2.2	24

#	Article	IF	Citations
37	Offset compensation by use of amplitude-modulated sidebands in optical frequency standards. Optics Letters, 2003, 28, 2186.	3.3	31
38	Modern Michelson-Morley Experiment using Cryogenic Optical Resonators. Physical Review Letters, 2003, 91, 020401.	7.8	237
39	Optical cavity tests of Lorentz invariance for the electron. Physical Review D, 2003, 68, .	4.7	89
40	TESTING THE FOUNDATIONS OF RELATIVITY USING CRYOGENIC OPTICAL RESONATORS. International Journal of Modern Physics D, 2002, 11, 1101-1108.	2.1	19