

Sven Herrmann

List of Publications by Year in descending order

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Version: 2024-02-01

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	Atom-Interferometry Tests of the Isotropy of Post-Newtonian Gravity. <i>Physical Review Letters</i> , 2008, 100, 031101.	7.8	263
2	Modern Michelson-Morley Experiment using Cryogenic Optical Resonators. <i>Physical Review Letters</i> , 2003, 91, 020401.	7.8	237
3	Atom Interferometry with up to 24-Photon-Momentum-Transfer Beam Splitters. <i>Physical Review Letters</i> , 2008, 100, 180405.	7.8	222
4	STE-QUESTâ€”test of the universality of free fall using cold atom interferometry. <i>Classical and Quantum Gravity</i> , 2014, 31, 115010.	4.0	159
5	Tests of Relativity by Complementary Rotating Michelson-Morley Experiments. <i>Physical Review Letters</i> , 2007, 99, 050401.	7.8	119
6	Atom interferometry tests of local Lorentz invariance in gravity and electrodynamics. <i>Physical Review D</i> , 2009, 80, .	4.7	111
7	Atom Interferometers with Scalable Enclosed Area. <i>Physical Review Letters</i> , 2009, 102, 240403.	7.8	106
8	Test of the Isotropy of the Speed of Light Using a Continuously Rotating Optical Resonator. <i>Physical Review Letters</i> , 2005, 95, 150401.	7.8	96
9	Optical cavity tests of Lorentz invariance for the electron. <i>Physical Review D</i> , 2003, 68, .	4.7	89
10	Test of the Gravitational Redshift with <i>i>Galileo</i>Satellites in an Eccentric Orbit. <i>Physical Review Letters</i>, 2018, 121, 231102.</i>	7.8	88
11	Macroscopic Quantum Resonators (MAQRO): 2015 update. <i>EPJ Quantum Technology</i> , 2016, 3, .	6.3	77
12	Noise-Immune Conjugate Large-Area Atom Interferometers. <i>Physical Review Letters</i> , 2009, 103, 050402.	7.8	59
13	Collective-Mode Enhanced Matter-Wave Optics. <i>Physical Review Letters</i> , 2021, 127, 100401.	7.8	52
14	Testing the equivalence principle with atomic interferometry. <i>Classical and Quantum Gravity</i> , 2012, 29, 184003.	4.0	50
15	A Compact Atom Interferometer for Future Space Missions. <i>Microgravity Science and Technology</i> , 2010, 22, 551-561.	1.4	48
16	Design of a dual species atom interferometer for space. <i>Experimental Astronomy</i> , 2015, 39, 167-206.	3.7	48
17	Tests of Lorentz invariance using hydrogen molecules. <i>Physical Review D</i> , 2004, 70, .	4.7	37
18	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. <i>Experimental Astronomy</i> , 2012, 34, 181-201.	3.7	37

#	ARTICLE	IF	CITATIONS
19	Twin-lattice atom interferometry. <i>Nature Communications</i> , 2021, 12, 2544.	12.8	37
20	Offset compensation by use of amplitude-modulated sidebands in optical frequency standards. <i>Optics Letters</i> , 2003, 28, 2186.	3.3	31
21	Miniaturized Lab System for Future Cold Atom Experiments in Microgravity. <i>Microgravity Science and Technology</i> , 2017, 29, 37-48.	1.4	27
22	Precision test of the isotropy of light propagation. <i>Applied Physics B: Lasers and Optics</i> , 2003, 77, 719-731.	2.2	24
23	Quantum test of the Universality of Free Fall using rubidium and potassium. <i>European Physical Journal D</i> , 2020, 74, 1.	1.3	24
24	Degenerate Quantum Gases in Microgravity. <i>Microgravity Science and Technology</i> , 2011, 23, 287-292.	1.4	22
25	6W, 1 kHz linewidth, tunable continuous-wave near-infrared laser. <i>Optics Express</i> , 2009, 17, 5246.	3.4	21
26	A three-layer magnetic shielding for the MAIUS-1 mission on a sounding rocket. <i>Review of Scientific Instruments</i> , 2016, 87, 063101.	1.3	20
27	TESTING THE FOUNDATIONS OF RELATIVITY USING CRYOGENIC OPTICAL RESONATORS. <i>International Journal of Modern Physics D</i> , 2002, 11, 1101-1108.	2.1	19
28	BOOST: A satellite mission to test Lorentz invariance using high-performance optical frequency references. <i>Physical Review D</i> , 2018, 97, .	4.7	17
29	Evaporative cooling from an optical dipole trap in microgravity. <i>Physical Review A</i> , 2020, 101, .	2.5	12
30	Nanosecond electro-optical switching with a repetition rate above 20MHz. <i>Review of Scientific Instruments</i> , 2007, 78, 124702.	1.3	9
31	Atom interferometry in space: Thermal management and magnetic shielding. <i>Review of Scientific Instruments</i> , 2014, 85, 083105.	1.3	7
32	Testing Fundamental Physics with Degenerate Quantum Gases in Microgravity. <i>Microgravity Science and Technology</i> , 2010, 22, 529-538.	1.4	6
33	All-optical matter-wave lens using time-averaged potentials. <i>Communications Physics</i> , 2022, 5, .	5.3	4
34	A space-based optical Kennedy-Thorndike experiment testing special relativity. , 2013, , .		3
35	The Space-Time Asymmetry Research (STAR) program. , 2010, , .		2
36	mSTAR: Testing special relativity in space using high performance optical frequency references. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
37	Multiphoton- and simultaneous conjugate Ramsey-Bordel atom interferometers. AIP Conference Proceedings, 2008, ,.	0.4	0
38	Generating an ultra-stable microwave in the drop tower., 2011, ,.		0
39	Measuring the fine structure constant using multiphoton atom interferometry., 2008, ,.		0
40	TESTING LORENTZ INVARIANCE., 2012, ,.		0