

Nathan D Lemke

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

3,207
citations

516710

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h-index

839539

18
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26
all docs

26
docs citations

26
times ranked

2275
citing authors

#	ARTICLE	IF	CITATIONS
1	An Atomic Clock with 10^{-18} Instability. <i>Science</i> , 2013, 341, 1215-1218.	12.6	645
2	Generation of ultrastable microwaves via optical frequency division. <i>Nature Photonics</i> , 2011, 5, 425-429.	31.4	643
3	Sr Lattice Clock at 1 Å^{-10} Fractional Uncertainty by Remote Optical Evaluation with a Ca Clock. <i>Science</i> , 2008, 319, 1805-1808.	12.6	500
4	Making optical atomic clocks more stable with 10^{16} -level laser stabilization. <i>Nature Photonics</i> , 2011, 5, 158-161.	31.4	353
5	A strontium lattice clock with 3 Å^{-10} inaccuracy and its frequency. <i>New Journal of Physics</i> , 2014, 16, 073023.	2.9	153
6	Optical Lattice Induced Light Shifts in an Yb Atomic Clock. <i>Physical Review Letters</i> , 2008, 100, 103002.	7.8	132
7	First Measurement of the Atomic Electric Dipole Moment of ^{87}Rb . <i>Physical Review Letters</i> , 2015, 114, 233002.	7.8	118
8	High-Accuracy Measurement of Atomic Polarizability in an Optical Lattice Clock. <i>Physical Review Letters</i> , 2012, 108, 153002.	7.8	100
9	Probing Interactions Between Ultracold Fermions. <i>Science</i> , 2009, 324, 360-363.	12.6	99
10	Ultralow phase noise microwave generation with an Er: fiber-based optical frequency divider. <i>Optics Letters</i> , 2011, 36, 3260.	3.3	90
11	Compact Optical Atomic Clock Based on a Two-Photon Transition in Rubidium. <i>Physical Review Applied</i> , 2018, 9, .	3.8	79
12	Improved limit on the ^{87}Rb electric dipole moment. <i>Physical Review C</i> , 2016, 94, .	2.9	78
13	p -Wave Cold Collisions in an Optical Lattice Clock. <i>Physical Review Letters</i> , 2011, 107, 103902.	7.8	66
14	Probing many-body interactions in an optical lattice clock. <i>Annals of Physics</i> , 2014, 340, 311-351.	2.8	52
15	Providing 10^{-16} Short-Term Stability of a $1.5\text{-}\mu\text{m}$ Laser to Optical Clocks. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2013, 62, 1556-1562.	4.7	47
16	Frequency shifts due to Stark effects on a rubidium two-photon transition. <i>Physical Review A</i> , 2019, 100, .	2.5	19
17	Compact Optical Clock with 5 Å^{-10} Instability at 1 s. <i>Navigation, Journal of the Institute of Navigation</i> , 2018, 65, 49-54.	2.8	14
18	Measurement of Optical Rubidium Clock Frequency Spanning 65 Days. <i>Sensors</i> , 2022, 22, 1982.	3.8	9

#	ARTICLE	IF	CITATIONS
19	A compact, high-performance all optical atomic clock based on telecom lasers. , 2016, , .		3
20	Lattice-based optical clock using an even isotope of Yb. , 2007, 6673, 117.		2
21	A Compact Optical Rubidium Atomic Frequency Standard. , 0, , .		2
22	Thermal design of high temperature alkaline-earth vapor cells. , 2016, , .		1
23	Robust Optical Clocks Based on Alkaline-Earth Vapor Cells. , 0, , .		1
24	Free-Space Optical Time Transfer between an Atomic Frequency Standard and a Simple Optical Clock. , 2019, , .		1
25	High spectral purity microwave generation via optical division. , 2012, , .		0
26	Robust Optical Clocks Based on Alkaline-Earth Vapor Cells. , 2015, , .		0