

JÃ©rÃ©me Lodewyck

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7568106/publications.pdf>

Version: 2024-02-01

54
papers

2,944
citations

279798

23
h-index

434195

31
g-index

55
all docs

55
docs citations

55
times ranked

1978
citing authors

#	ARTICLE	IF	CITATIONS
1	The SECOQC quantum key distribution network in Vienna. <i>New Journal of Physics</i> , 2009, 11, 075001.	2.9	619
2	Quantum key distribution over 25 km with an all-fiber continuous-variable system. <i>Physical Review A</i> , 2007, 76, .	2.5	403
3	A clock network for geodesy and fundamental science. <i>Nature Communications</i> , 2016, 7, 12443.	12.8	297
4	Experimental realization of an optical second with strontium lattice clocks. <i>Nature Communications</i> , 2013, 4, 2109.	12.8	192
5	Ultrastable lasers based on vibration insensitive cavities. <i>Physical Review A</i> , 2009, 79, .	2.5	187
6	Test of Special Relativity Using a Fiber Network of Optical Clocks. <i>Physical Review Letters</i> , 2017, 118, 221102.	7.8	155
7	Lattice-Induced Frequency Shifts in Sr Optical Lattice Clocks at the 10^{17} level. <i>Physical Review Letters</i> , 2011, 106, 210801.	7.8	113
8	New bounds on dark matter coupling from a global network of optical atomic clocks. <i>Science Advances</i> , 2018, 4, eaau4869.	10.3	96
9	Controlling excess noise in fiber-optics continuous-variable quantum key distribution. <i>Physical Review A</i> , 2005, 72, .	2.5	93
10	Nondestructive measurement of the transition probability in a Sr optical lattice clock. <i>Physical Review A</i> , 2009, 79, .	2.5	77
11	Development of a strontium optical lattice clock for the SOC mission on the ISS. <i>Comptes Rendus Physique</i> , 2015, 16, .	0.9	74
12	Optical to microwave clock frequency ratios with a nearly continuous strontium optical lattice clock. <i>Metrologia</i> , 2016, 53, 1123-1130.	1.2	74
13	Search for transient variations of the fine structure constant and dark matter using fiber-linked optical atomic clocks. <i>New Journal of Physics</i> , 2020, 22, 093010.	2.9	67
14	Comparing a mercury optical lattice clock with microwave and optical frequency standards. <i>New Journal of Physics</i> , 2016, 18, 113002.	2.9	53
15	Observation and cancellation of a perturbing dc stark shift in strontium optical lattice clocks. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012, 59, 411-415.	3.0	51
16	Ultra-stable clock laser system development towards space applications. <i>Scientific Reports</i> , 2016, 6, 33973.	3.3	49
17	Minimizing the dick effect in an optical lattice clock. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010, 57, 623-628.	3.0	43
18	Experimental Implementation of Non-Gaussian Attacks on a Continuous-Variable Quantum-Key-Distribution System. <i>Physical Review Letters</i> , 2007, 98, 030503.	7.8	40

#	ARTICLE	IF	CITATIONS
19	On a definition of the SI second with a set of optical clock transitions. Metrologia, 2019, 56, 055009.	1.2	34
20	Atomic fountains and optical clocks at SYRTE: Status and perspectives. Comptes Rendus Physique, 2015, 16, 461-470.	0.9	31
21	A noise-immune cavity-assisted non-destructive detection for an optical lattice clock in the quantum regime. New Journal of Physics, 2017, 19, 083002.	2.9	30
22	Tight bound on the coherent-state quantum key distribution with heterodyne detection. Physical Review A, 2007, 76, .	2.5	28
23	Frequency stability of optical lattice clocks. New Journal of Physics, 2010, 12, 065026.	2.9	24
24	Polarizabilities of the ^{87}Sr optical lattice clock transition. Physical Review A, 2015, 92, .	2.5	23
25	The space optical clocks project: Development of high-performance transportable and breadboard optical clocks and advanced subsystems. , 2012, , .		20
26	Direct comparisons of European primary and secondary frequency standards via satellite techniques. Metrologia, 2020, 57, 045005.	1.2	20
27	Development of a strontium optical lattice clock for the SOC mission on the ISS. Proceedings of SPIE, 2016, , .	0.8	10
28	Optical Lattice Clocks as Candidates for a Possible Redefinition of the SI Second. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1568-1573.	4.7	6
29	Universal formalism for data sharing and processing in clock comparison networks. Physical Review Research, 2020, 2, .	3.6	6
30	Improving Short-Term Stability in Optical Lattice Clocks by Quantum Nondemolition Measurement. Physical Review Letters, 2022, 128, 153201.	7.8	5
31	Comparison of two Strontium optical lattice clocks in agreement at the 10^{-16} level. , 2012, , .		3
32	Background Gas Collision Frequency Shift on Lattice-Trapped Strontium Atoms. , 2019, , .		3
33	Quantum key distribution with coherent states at telecom wavelength. , 0, , .		1
34	Experimental implementation of non-gaussian attacks on a continuous-variable quantum key distribution system. , 2007, , .		1
35	Frequency stability of optical lattice clocks. New Journal of Physics, 2011, 13, 059501.	2.9	1
36	Comparison of two Strontium optical lattice clocks in agreement at the 10^{-16} level. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
37	Contributing to TAI with Sr optical lattice clocks. , 2017, , .		1
38	Study of Accuracy and Stability of Sr Lattice Clocks at LNE-SYRTE. , 2018, , .		1
39	Quantum key distribution with coherent states at telecom wavelength. , 2005, , .		1
40	Comparison of Sr Optical Lattice Clocks at the 10 ⁻¹⁶ Level. , 2013, , .		1
41	Optical lattice clock with spin-polarized ⁸⁷ Sr atoms. , 2007, , .		0
42	Quantum key distribution device with coherent states. , 2007, , .		0
43	Optimization of the Dick effect in an optical lattice clock. , 2009, , .		0
44	Trapping induced frequency shifts by comparison of two Sr optical lattice clocks at the 10 ⁻¹⁷ level. , 2011, , .		0
45	Strontium and mercury optical lattice clocks at LNE-SYRTE. , 2012, , .		0
46	An even better atomic clock. IEEE Spectrum, 2014, 51, 42-64.	0.7	0
47	Strontium optical lattice clocks at LNE-SYRTE. , 2014, , .		0
48	Operational strontium optical lattice clocks. , 2016, , .		0
49	Dark matter searches within the intercontinental optical atomic clock network. , 2018, , .		0
50	Analysis of optical atomic clocks readouts aimed on searches for dark-matter signatures. , 2018, , .		0
51	Systematic uncertainties in strontium optical lattice clocks. , 2020, , .		0
52	Quantum key distribution over 25 km using a fibre set-up based on continuous variables. Annales De Physique, 2007, 32, 163-165.	0.2	0
53	Strontium and Mercury of Optical Lattice Clocks. , 2012, , .		0
54	Systematic Effects in Strontium Optical Lattice Clocks. , 2021, , .		0