

# JÃ©rÃ©me Lodewyck

## List of Publications by Year in descending order

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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	Improving Short-Term Stability in Optical Lattice Clocks by Quantum Nondemolition Measurement. <i>Physical Review Letters</i> , 2022, 128, 153201.	7.8	5
2	Systematic Effects in Strontium Optical Lattice Clocks. , 2021, , .		0
3	Direct comparisons of European primary and secondary frequency standards via satellite techniques. <i>Metrologia</i> , 2020, 57, 045005.	1.2	20
4	Systematic uncertainties in strontium optical lattice clocks. , 2020, , .		0
5	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
6	Universal formalism for data sharing and processing in clock comparison networks. <i>Physical Review Research</i> , 2020, 2, .	3.6	6
7	On a definition of the SI second with a set of optical clock transitions. <i>Metrologia</i> , 2019, 56, 055009.	1.2	34
8	Background Gas Collision Frequency Shift on Lattice-Trapped Strontium Atoms. , 2019, , .		3
9	Study of Accuracy and Stability of Sr Lattice Clocks at LNE-SYRTE. , 2018, , .		1
10	New bounds on dark matter coupling from a global network of optical atomic clocks. <i>Science Advances</i> , 2018, 4, eaau4869.	10.3	96
11	Dark matter searches within the intercontinental optical atomic clock network. , 2018, , .		0
12	Analysis of optical atomic clocks readouts aimed on searches for dark-matter signatures. , 2018, , .		0
13	Test of Special Relativity Using a Fiber Network of Optical Clocks. <i>Physical Review Letters</i> , 2017, 118, 221102.	7.8	155
14	A noise-immune cavity-assisted non-destructive detection for an optical lattice clock in the quantum regime. <i>New Journal of Physics</i> , 2017, 19, 083002.	2.9	30
15	Contributing to TAI with Sr optical lattice clocks. , 2017, , .		1
16	Optical to microwave clock frequency ratios with a nearly continuous strontium optical lattice clock. <i>Metrologia</i> , 2016, 53, 1123-1130.	1.2	74
17	Development of a strontium optical lattice clock for the SOC mission on the ISS. <i>Proceedings of SPIE</i> , 2016, , .	0.8	10
18	Comparing a mercury optical lattice clock with microwave and optical frequency standards. <i>New Journal of Physics</i> , 2016, 18, 113002.	2.9	53

#	ARTICLE	IF	CITATIONS
19	Operational strontium optical lattice clocks. , 2016, , .		0
20	A clock network for geodesy and fundamental science. Nature Communications, 2016, 7, 12443.	12.8	297
21	Ultra-stable clock laser system development towards space applications. Scientific Reports, 2016, 6, 33973.	3.3	49
22	Polarizabilities of the $87\text{Sr}$ clock transition. Physical Review A, 2015, 92, .	2.5	23
23	Atomic fountains and optical clocks at SYRTE: Status and perspectives. Comptes Rendus Physique, 2015, 16, 461-470.	0.9	31
24	Development of a strontium optical lattice clock for the SOC mission on the ISS. Comptes Rendus Physique, 2015, 16, .	0.9	74
25	An even better atomic clock. IEEE Spectrum, 2014, 51, 42-64.	0.7	0
26	Strontium optical lattice clocks at LNE-SYRTE. , 2014, , .		0
27	Experimental realization of an optical second with strontium lattice clocks. Nature Communications, 2013, 4, 2109.	12.8	192
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	Comparison of Sr Optical Lattice Clocks at the 10 <sup>-16</sup> Level. , 2013, , .		1
30	Strontium and mercury optical lattice clocks at LNE-SYRTE. , 2012, , .		0
31	Comparison of two Strontium optical lattice clocks in agreement at the 10 <sup>-16</sup> level. , 2012, , .		3
32	Observation and cancellation of a perturbing dc stark shift in strontium optical lattice clocks. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 411-415.	3.0	51
33	Comparison of two Strontium optical lattice clocks in agreement at the 10 <sup>-16</sup> level. , 2012, , .		1
34	The space optical clocks project: Development of high-performance transportable and breadboard optical clocks and advanced subsystems. , 2012, , .		20
35	Strontium and Mercury of Optical Lattice Clocks. , 2012, , .		0
36	Trapping induced frequency shifts by comparison of two Sr optical lattice clocks at the 10 <sup>-17</sup> level. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
37	Frequency stability of optical lattice clocks. New Journal of Physics, 2011, 13, 059501.	2.9	1
38	Lattice-Induced Frequency Shifts in Sr Optical Lattice Clocks at the $10^{17}$ Hz level. Physical Review Letters, 2011, 106, 210801.	7.8	113
39	Frequency stability of optical lattice clocks. New Journal of Physics, 2010, 12, 065026.	2.9	24
40	Minimizing the dick effect in an optical lattice clock. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 623-628.	3.0	43
41	Optimization of the Dick effect in an optical lattice clock. , 2009, , .		0
42	Nondestructive measurement of the transition probability in a Sr optical lattice clock. Physical Review A, 2009, 79, .	2.5	77
43	Ultrastable lasers based on vibration insensitive cavities. Physical Review A, 2009, 79, .	2.5	187
44	The SECOQC quantum key distribution network in Vienna. New Journal of Physics, 2009, 11, 075001.	2.9	619
45	Optical lattice clock with spin-polarized $^{87}\text{Sr}$ atoms. , 2007, , .		0
46	Experimental Implementation of Non-Gaussian Attacks on a Continuous-Variable Quantum-Key-Distribution System. Physical Review Letters, 2007, 98, 030503.	7.8	40
47	Tight bound on the coherent-state quantum key distribution with heterodyne detection. Physical Review A, 2007, 76, .	2.5	28
48	Experimental implementation of non-gaussian attacks on a continuous-variable quantum key distribution system. , 2007, , .		1
49	Quantum key distribution device with coherent states. , 2007, , .		0
50	Quantum key distribution over $25\text{ km}$ with an all-fiber continuous-variable system. Physical Review A, 2007, 76, .	2.5	403
51	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
52	Controlling excess noise in fiber-optics continuous-variable quantum key distribution. Physical Review A, 2005, 72, .	2.5	93
53	Quantum key distribution with coherent states at telecom wavelength. , 2005, , .		1
54	Quantum key distribution with coherent states at telecom wavelength. , 0, , .		1