Uwe Sterr

List of Publications by Year
in descending order

168 papers	7,198 citations	47006 47 h-index	58581 82 g-index
170 all docs	170 docs citations	170 times ranked	3008 citing authors

#	Article	IF	Citations
1	A sub-40-mHz-linewidth laser based on a silicon single-crystal optical cavity. Nature Photonics, 2012, 6, 687-692.	31.4	571
2	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1.5</mml:mn><mml:mtext>â€‰</mml:mtext><mml:mtext>â€‰</mml:mtext><mml:mi>Î¼< mathvariant="normal">m</mml:mi></mml:mrow></mml:mrow></mml:math> Lasers with Sub-10ÂmHz Linewidth. Physical Review Letters, 2017, 118, 263202.	7.8	359
3	Geodesy and metrology with a transportable optical clock. Nature Physics, 2018, 14, 437-441.	16.7	316
4	A clock network for geodesy and fundamental science. Nature Communications, 2016, 7, 12443.	12.8	297
5	Demonstration of 4.8â€‰Ã—â€‰10âˆ’17 stability at 1â€‰s for two independent optical clocks. Nature Photonics, 2019, 13, 714-719.	31.4	287
6	8â€‰â€‰Ã—â€‰â€‰10^âˆ’17 fractional laser frequency instability with a long room-temperature cavity. Optics Letters, 2015, 40, 2112.	3.3	187
7	Transportable Optical Lattice Clock with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>7</mml:mn><mml:mo>Ã—</mml:mo><mml:msup><mml:mn>10</mml:mn><mml:mrow><mml:mo>âˆ’</m Physical Review Letters, 2017, 118, 073601.	7.8	168
8	Test of Special Relativity Using a Fiber Network of Optical Clocks. Physical Review Letters, 2017, 118, 221102.	7.8	155
9	A strontium lattice clock with 3 Ã— 10^{âˆ’17}inaccuracy and its frequency. New Journal of Physics, 2014, 16, 073023.	2.9	153
10	Quantum tests of the Einstein Equivalence Principle with the STEâ€“QUEST space mission. Advances in Space Research, 2015, 55, 501-524.	2.6	151
11	Doppler Cooling and Trapping on Forbidden Transitions. Physical Review Letters, 2001, 87, 123002.	7.8	145
12	Optical frequency transfer via 146 km fiber link with 10^âˆ’19 relative accuracy. Optics Letters, 2009, 34, 2270.	3.3	133
13	Reduction of residual amplitude modulation to 1 Ã— 10^-6 for frequency modulation and laser stabilization. Optics Letters, 2014, 39, 1980.	3.3	125
14	Diode laser with 1 Hz linewidth. Optics Letters, 2006, 31, 736.	3.3	124
15	Bose-Einstein Condensation of Alkaline Earth Atoms:<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>Ca</mml:mi><mml:mprescripts /><mml:none /><mml:mn>40</mml:mn></mml:mmultiscripts></mml:math>. Physical Review Letters, 2009, 103, 130401.	7.8	123
16	Optical Clock with Ultracold Neutral Atoms. Physical Review Letters, 2002, 89, 230801.	7.8	122
17	Vibration-insensitive reference cavity for an ultra-narrow-linewidth laser. Applied Physics B: Lasers and Optics, 2006, 83, 531-536.	2.2	121
18	Hyper-Ramsey spectroscopy of optical clock transitions. Physical Review A, 2010, 82, .	2.5	111

#	Article	IF	Citations
19	Crystalline optical cavity at 4â€‰â€‰K with thermal-noise-limited instability and ultralow drift. Optica, 2019, 6, 240.	9.3	111
20	High Accuracy Correction of Blackbody Radiation Shift in an Optical Lattice Clock. Physical Review Letters, 2012, 109, 263004.	7.8	110
21	Realization of a timescale with an accurate optical lattice clock. Optica, 2016, 3, 563.	9.3	110
22	The⁸⁷Sr optical frequency standard at PTB. Metrologia, 2011, 48, 399-407.	1.2	102
23	Tuning the thermal expansion properties of optical reference cavities with fused silica mirrors. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 914.	2.1	100
24	Calcium optical frequency standard with ultracold atoms: Approaching10âˆ'15relative uncertainty. Physical Review A, 2005, 72, .	2.5	98
25	Einstein Gravity Explorerâ€"a medium-class fundamental physics mission. Experimental Astronomy, 2009, 23, 573-610.	3.7	95
26	Thermal noise in optical cavities revisited. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 178.	2.1	83
27	The magnesium ramsey interferometer: Applications and prospects. Applied Physics B, Photophysics and Laser Chemistry, 1992, 54, 341-346.	1.5	81
28	Towards an optical clock for space: Compact, high-performance optical lattice clock based on bosonic atoms. Physical Review A, 2018, 98, .	2.5	81
29	Perspectives for a new realization of the pascal by optical methods. Metrologia, 2017, 54, S146-S161.	1.2	79
30	Optical Control of Ultracold Collisions in Metastable Xenon. Physical Review Letters, 1995, 74, 506-509.	7.8	78
31	Ultrastable Silicon Cavity in a Continuously Operating Closed-Cycle Cryostat at 4ÂK. Physical Review Letters, 2017, 119, 243601.	7.8	77
32	A transportable strontium optical lattice clock. Applied Physics B: Lasers and Optics, 2014, 117, 1107-1116.	2.2	75
33	SAGE: A proposal for a space atomic gravity explorer. European Physical Journal D, 2019, 73, 1.	1.3	75
34	Development of a strontium optical lattice clock for the SOC mission on the ISS. Comptes Rendus Physique, 2015, 16, .	0.9	74
35	Search for transient variations of the fine structure constant and dark matter using fiber-linked optical atomic clocks. New Journal of Physics, 2020, 22, 093010.	2.9	67
36	The optical calcium frequency standards of PTB and NIST. Comptes Rendus Physique, 2004, 5, 845-855.	0.9	65

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37	Collisional Losses, Decoherence, and Frequency Shifts in Optical Lattice Clocks with Bosons. Physical Review Letters, 2009, 103, 090801.	7.8	65
38	Noise and instability of an optical lattice clock. Physical Review A, 2015, 92, .	2.5	62
39	Optical Ramsey interferences on laser cooled and trapped atoms, detected by electron shelving. Optics Communications, 1993, 103, 73-78.	2.1	59
40	Optical Ramsey spectroscopy on laser-trapped and thermal Mg atoms. Applied Physics B: Lasers and Optics, 1994, 59, 99-115.	2.2	56
41	Ultrastable laser with average fractional frequency drift rate below 5 Ã— 10^â^'19/s. Optics Letters, 2014, 39, 5102.	3.3	56
42	Calibration of a Shackâ€"Hartmann sensor for absolute measurements of wavefronts. Applied Optics, 2005, 44, 6419.	2.1	53
43	Demonstration of a transportable 1 Hz-linewidth laser. Applied Physics B: Lasers and Optics, 2011, 104, 741-745.	2.2	53
44	Tackling the Blackbody Shift in a Strontium Optical Lattice Clock. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 2550-2557.	4.7	52
45	A compact, robust, and transportable ultra-stable laser with a fractional frequency instability of 1 Ã— 10â^'15. Review of Scientific Instruments, 2014, 85, 113107.	1.3	52
46	Phase-coherent comparison of two optical frequency standards over 146 km using a telecommunication fiber link. Applied Physics B: Lasers and Optics, 2009, 97, 541-551.	2.2	50
47	Ultra-stable clock laser system development towards space applications. Scientific Reports, 2016, 6, 33973.	3.3	49
48	Providing 10^{-16} Short-Term Stability of a 1.5-$muhbox{m}$ Laser to Optical Clocks. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1556-1562.	4.7	47
49	A transportable optical calcium frequency standard. Applied Physics B: Lasers and Optics, 1999, 68, 27-38.	2.2	46
50	Photoassociation spectroscopy of cold calcium atoms. Physical Review A, 2003, 67, .	2.5	45
51	The Stability of an Optical Clock Laser Transferred to the Interrogation Oscillator for a Cs Fountain. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 1258-1262.	4.7	45
52	On the relation between uncertainties of weighted frequency averages and the various types of Allan deviations. Metrologia, 2015, 52, 565-574.	1.2	44
53	Wavelength-dependent ac Stark shift of theS01â€P13transition at657nmin Ca. Physical Review A, 2004, 70, .	2.5	43
54	Delivering pulsed and phase stable light to atoms of an optical clock. Applied Physics B: Lasers and Optics, 2012, 107, 301-311.	2.2	43

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55	A compact and efficient strontium oven for laser-cooling experiments. Review of Scientific Instruments, 2012, 83, 103101.	1.3	40
56	Atom interferometers and optical atomic clocks: New quantum sensors for fundamental physics experiments in space. Nuclear Physics, Section B, Proceedings Supplements, 2007, 166, 159-165.	0.4	38
57	Long term measurement of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Sr</mml:mi><mml:mprescripts /><mml:none /><mml:mn>87</mml:mn></mml:mmultiscripts></mml:math> clock frequency at the limit of primary Cs clocks. Physical Review Research, 2020, 2, .	3.6	38
58	Spin polarization and quantum-statistical effects in ultracold ionizing collisions. Physical Review A, 1999, 59, 1926-1935.	2.5	36
59	Demonstration of a Timescale Based on a Stable Optical Carrier. Physical Review Letters, 2019, 123, 173201.	7.8	34
60	Optical Clocks in Space. Nuclear Physics, Section B, Proceedings Supplements, 2007, 166, 300-302.	0.4	30
61	Prospects and challenges for squeezing-enhanced optical atomic clocks. Nature Communications, 2020, 11, 5955.	12.8	30
62	Ultracold collisions and optical shielding in metastable xenon. Physical Review A, 1996, 53, 1678-1689.	2.5	29
63	Lattice-induced photon scattering in an optical lattice clock. Physical Review A, 2018, 97, .	2.5	29
64	Reducing the effect of thermal noise in optical cavities. Applied Physics B: Lasers and Optics, 2013, 113, 233-242.	2.2	27
65	Optical frequency ratio of a ¹⁷¹Yb⁺ single-ion clock and a ⁸⁷Sr lattice clock. Metrologia, 2021, 58, 015005.	1.2	27
66	Comparing ultrastable lasers at 7â€‰Ã—â€‰10â"'17 fractional frequency instability through a 2220â€‰km optical fibre network. Nature Communications, 2022, 13, 212.	12.8	27
67	Remote frequency measurement of the¹S₀â†'³P₁transition in laser-cooled²⁴Mg. New Journal of Physics, 2011, 13, 125010.	2.9	26
68	A second generation of low thermal noise cryogenic silicon resonators. Journal of Physics: Conference Series, 2016, 723, 012031.	0.4	24
69	Optical frequency standard based on cold ca atoms. IEEE Transactions on Instrumentation and Measurement, 2003, 52, 250-254.	4.7	23
70	Influence of Chirped Excitation Pulses in an Optical Clock With Ultracold Calcium Atoms. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 771-775.	4.7	23
71	Low-frequency-noise diode laser for atom interferometry. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 1632.	2.1	23
72	End-to-end topology for fiber comb based optical frequency transfer at the 10^{â"'21}level. Optics Express, 2019, 27, 36886.	3.4	23

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73	Lifetime of the metastable 6sâ€² [1/2]_0 clock state in xenon. Optics Letters, 1995, 20, 1192.	3.3	21
74	Compensation of field-induced frequency shifts in Ramsey spectroscopy of optical clock transitions. JETP Letters, 2010, 90, 713-717.	1.4	21
75	Atom-interferometric determination of the dc-Stark shift of the Mg-intercombination line. Optics Communications, 1993, 99, 172-176.	2.1	20
76	Magnetic inhibition of polarization-gradient laser cooling inÏƒ+-Ïƒâˆ’optical molasses. Physical Review A, 1996, 54, 2275-2279.	2.5	20
77	Improvement of the fractional uncertainty of a neutral-atom calcium optical frequency standard to 2ï¿½10 -14. Applied Physics B: Lasers and Optics, 2003, 76, 149-156.	2.2	20
78	Determination of the calcium ground state scattering length by photoassociation spectroscopy at large detunings. European Physical Journal D, 2007, 44, 73-79.	1.3	20
79	The space optical clocks project: Development of high-performance transportable and breadboard optical clocks and advanced subsystems. , 2012, , .		20
80	Vibration Influence on Hit Probability During Beaconless Spatial Acquisition. Journal of Lightwave Technology, 2016, 34, 2500-2509.	4.6	19
81	Long-range transport of ultracold atoms in a far-detuned one-dimensional optical lattice. New Journal of Physics, 2012, 14, 073020.	2.9	18
82	Short-pulse properties of optical frequency comb generators. Applied Optics, 2000, 39, 4372.	2.1	17
83	Ultrastable lasers: new developments and applications. Proceedings of SPIE, 2009, , .	0.8	17
84	Phase-coherent frequency comparison of optical clocks using a telecommunication fiber link. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 175-181.	3.0	17
85	Transportable interrogation laser system with an instability of mod Ïƒ_yâ€‰=â€‰3â€‰Ã—â€‰10^{âˆ’16}. Optics Express, 2020, 28, 16407.	3.4	17
86	Topological phase shift in a cold-atom interferometer. Applied Physics B: Lasers and Optics, 1995, 60, 199-204.	2.2	16
87	Interrogation Laser for a Strontium Lattice Clock. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 1252-1257.	4.7	16
88	Beaconless acquisition for ISL and SGL, summary of 3 years operation in space and on ground. , 2011, , .		16
89	Optical Frequency Measurements Using fs- Comb Generators. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 750-753.	4.7	15
90	Alphasat and sentinel 1A, the first 100 links. , 2015, , .		13

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91	Atom Interferometry Based on Separated Light Fields. , 1997, , 293-362.		13
92	High-resolution isotope shift measurement of the MgI 1 S 0 - 3 P 1 intercombination transition. Applied Physics B, Photophysics and Laser Chemistry, 1993, 56, 62-64.	1.5	12
93	Scheme for measuring a Berry phase in an atom interferometer. Physical Review A, 1993, 47, 2518-2522.	2.5	11
94	Ground-state properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Ca</mml:mi><mml:mn>2</mml:mn></mml:msub></mml: from narrow-line two-color photoassociation. Physical Review A, 2017, 95, .	2.5	11
95	Dynamical decoupling of laser phase noise in compound atomic clocks. Communications Physics, 2020, 3, .	5.3	11
96	Feasibility of narrow-line cooling in optical dipole traps. European Physical Journal D, 2007, 42, 317-324.	1.3	10
97	International timescales with optical clocks (ITOC). , 2013, , .		10
98	Development of a strontium optical lattice clock for the SOC mission on the ISS. Proceedings of SPIE, 2016, , .	0.8	10
99	Cooling by Maxwellâ€™s demon: Preparation of single-velocity atoms for matter-wave interferometry. Physical Review A, 2000, 62, .	2.5	9
100	A sharper laser. Nature Physics, 2009, 5, 382-383.	16.7	9
101	Thermal noise and mechanical loss of SiO₂/Ta₂O₅ optical coatings at cryogenic temperatures. Optics Letters, 2021, 46, 592.	3.3	9
102	A novel stabilization method for an optical frequency comb generator. IEEE Transactions on Instrumentation and Measurement, 1999, 48, 574-577.	4.7	8
103	Photoassociation spectroscopy of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Ca</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>40</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>measured with kilohertz accuracy near the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msup><mml:mrow /><mml:mn>	2.5	8
104	A transportable optical lattice clock. Journal of Physics: Conference Series, 2016, 723, 012020.	0.4	8
105	Phase-coherent frequency comparison of optical clocks using a telecommunication fiber link. , 2009, , .		7
106	Hyperfine structure investigation on the (3d 4)3 G 4,5 levels of47Ti. Zeitschrift FÃ¼r Physik D-Atoms Molecules and Clusters, 1993, 27, 303-306.	1.0	6
107	Blackbody radiation shift in strontium lattice clocks revisited. Physical Review Research, 2021, 3, .	3.6	6
108	Determination of the xenon 6s[3/2]_2â€“6sâ€²[1/2]_0 clock frequency by interferometric wavelength measurements. Optics Letters, 1995, 20, 1421.	3.3	5

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109	An Optical Frequency Standardwith Cold and Ultra-cold Calcium Atoms. Lecture Notes in Physics, 2004, , 229-244.	0.7	5
110	1.5 Î¼m Lasers with sub 10 mHz Linewidth. , 2017, , .		5
111	Excitation of only a single recoil component in optical Ramsey interferometry using cross-over resonances. Optics Communications, 1994, 110, 99-104.	2.1	4
112	Frequency stabilization of a 1.54-Î¼m DFB laser diode to Doppler-free absorption lines of acetylene. , 2001, , .		4
113	Telecommunication fiber link for the remote characterization of a magnesium optical frequency standard. Proceedings of SPIE, 2009, , .	0.8	4
114	Subhertz-linewidth infrared frequency source with a long-term instability below 5ÂÃ—Â10â˜15. Applied Physics B: Lasers and Optics, 2013, 110, 465-470.	2.2	4
115	An optical lattice clock breadboard demonstrator for the I-SOC mission on the ISS. , 2017, , .		4
116	Simple and compact diode laser system stabilized to Doppler-broadened iodine lines at 633â€‰â€‰nm. Applied Optics, 2020, 59, 10808.	1.8	4
117	Prospects of Doppler cooling on forbidden lines. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 985.	2.1	3
118	MEASUREMENT NOISE FLOOR FOR A LONG-DISTANCE OPTICAL CARRIER TRANSMISSION VIA FIBER. , 2009, , .		3
119	Ultracold 88Sr atoms for an optical lattice clock. Frequency Control Symposium and Exhibition, Proceedings of the IEEE International, 2007, , .	0.0	2
120	Tackling the black body shift in a strontium optical lattice clock. , 2010, , .		2
121	Development of a transportable laser cooled strontium source for future applications in space. , 2010, , .		2
122	Nonlinear Zeeman effect in photoassociation spectra of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>Ca</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>40</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>near the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>P</mml:mi><mml:mn>1</mml:mn>	2.5	2
123	End-to-end topology for fiber comb based optical frequency transfer at the 10â˜21 level: erratum. Optics Express, 2020, 28, 15023.	3.4	2
124	Optical Frequency Measurements using Fs- Comb Generators. , 2004, , .		1
125	An improved optical clock with ultracold calcium atoms. , 2005, , .		1
126	Influence of high-frequency laser frequency noise on the stability of an optical clock. Frequency Control Symposium and Exhibition, Proceedings of the IEEE International, 2007, , .	0.0	1

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127	Measuring the Thermal Expansion Coefficient of Ultrastable Materials with 10â^'9 Kâ^'1 Uncertainty. , 2019, , .		1
128	ULTRACOLD CALCIUM ATOMS FOR OPTICAL CLOCKS AND COLLISIONAL STUDIES. , 2004, , .		1
129	Optical ramsey interferometry with magnesium atoms. , 1993, , 36-50.		0
130	Atom Optics and Interferometry with Laser Cooled Atoms. , 1994, , .		0
131	Comparison between laser cooled and thermal Mg atoms for a future optical frequency standard. , 0, , .		0
132	Development and investigation of frequency references for the 1.55-Î¼m optical communication band. , 1999, 3571, 209.		0
133	Frequency stabilization of a 1.54 Î¼m DFB-laser diode to Doppler-free lines of acetylene. , 0, , .		0
134	Sub-Doppler atomic velocities for an optical frequency standard by Maxwell's demon cooling. , 0, , .		0
135	Preparation of single velocity atoms for matter wave interferometry. , 0, , .		0
136	Calcium optical frequency standard. , 2001, 4269, 112.		0
137	Phase-coherent frequency measurements of the calcium- and ytterbium-optical frequency standards with a Kerr-lens modelocked femtosecond laser. , 2001, , .		0
138	A Ca optical frequency standard based on ultra-cold atoms. , 0, , .		0
139	Ultracold calcium atoms for an optical frequency standard and cold collision studies. , 2003, , .		0
140	Spectroscopy with cold and ultracold strontium atoms. , 2003, , .		0
141	Diode laser frequency stabilization for a Ca optical clock. , 2003, , .		0
142	Improved Optical Frequency Standard with Ultracold Calcium Atoms. , 2004, , .		0
143	An optical frequency standard with ultracold calcium atoms. , 2005, , .		0
144	Optical Frequency Standard Based on Ballistic Ca Atoms. , 2006, , .		0

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145	Frequency comparisons of optical frequency standards and new results on a long-distance carrier-phase optical fiber link. , 2007, , .		0
146	Atomic Frequency Standards and their Impact on the Past, Present and Future of the Second. LEOS Summer Topical Meeting, 2007, , .	0.0	0
147	Clock laser system for strontium lattice clock. , 2008, , .		0
148	Determining the clock frequency shift due to collisions in a 1-D optical lattice clock with ⁸⁸Sr. , 2009, , .		0
149	Development of a cryogenic Sub-Hz laser system for optical clocks. , 2011, , .		0
150	Measurement of the differential polarizability of the 698 nm clock transition of strontium for evaluation of optical lattice clocks. , 2012, , .		0
151	A sub-40 mHz laser based on a silicon single-crystal optical cavity. , 2012, , .		0
152	Frequency dissemination at the 19th decimal place. , 2012, , .		0
153	A small-linewidth absolute optical frequency source. , 2012, , .		0
154	Comparing PTB's optical ¹⁷¹Yb⁺ ion and ⁸⁷Sr lattice clock. , 2013, , .		0
155	Development of compact lattice optical clocks towards future space clocks. , 2013, , .		0
156	Thermal noise in optical reference resonators. , 2014, , .		0
157	Optical cryogenic silicon resonators. , 2016, , .		0
158	Planning constraints of low grazing altitude GEO-LEO laser links based on in-orbit data. Optical Engineering, 2016, 55, 111608.	1.0	0
159	Ultrastable lasers based on low thermal noise optical resonators. , 2017, , .		0
160	Thermal Noise in Ultrastable Cavity-Referenced Lasers. , 2017, , .		0
161	Silicon Cavity at 4 Kelvin with Thermal Noise Limited Performance. , 2018, , .		0
162	Spectral Purity Transfer for High Performance Strontium Lattice Clocks. , 2018, , .		0

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163	An optical frequency standard with ultracold calcium atoms. , 2004, , .		0
164	Cold Sr atoms for an optical frequency standard. , 2004, , .		0
165	CLOCK LASER SYSTEM FOR A STRONTIUM LATTICE CLOCK. , 2009, , .		0
166	Optical Atomic Clocks: From International Timekeeping to Gravity Potential Measurement. , 2019, , .		0
167	Optical frequency stability transfer using a single-branch Er:fiber frequency comb. , 2019, , .		0
168	Micro-Integrated Laser Modules for Optical Clocks. , 2020, , .		0