Feng-Lei Hong

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7811980/publications.pdf

Version: 2024-02-01

236	5,517	109321	88630
papers	citations	35 h-index	70 g-index

237	237	237	3073
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An optical lattice clock. Nature, 2005, 435, 321-324.	27.8	688
2	The Japanese space gravitational wave antenna: DECIGO. Classical and Quantum Gravity, 2011, 28, 094011.	4.0	456
3	New Limits on Coupling of Fundamental Constants to Gravity Using<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>Sr</mml:mi><mml:mprescripts /><mml:none /><mml:mn>87</mml:mn></mml:mmultiscripts></mml:math>Optical Lattice Clocks. Physical Review Letters, 2008, 100, 140801.	7.8	261
4	Frequency metrology with a turnkey all-fiber system. Optics Letters, 2004, 29, 2467.	3.3	191
5	Long-term measurement of optical frequencies using a simple, robust and low-noise fiber based frequency comb. Optics Express, 2006, 14, 5223.	3.4	185
6	A multi-branch, fiber-based frequency comb with millihertz-level relative linewidths using an intra-cavity electro-optic modulator. Optics Express, 2010, 18, 1667.	3.4	181
7	Current status of space gravitational wave antenna DECIGO and B-DECIGO. Progress of Theoretical and Experimental Physics, 2021, 2021, .	6.6	150
8	The status of DECIGO. Journal of Physics: Conference Series, 2017, 840, 012010.	0.4	148
9	Ultra-broadband dual-comb spectroscopy across 1.0â€“1.9 Âµm. Applied Physics Express, 2015, 8, 082402.	2.4	134
10	Stabilization and frequency measurement of the I/sub 2/-stabilized Nd:YAG laser. IEEE Transactions on Instrumentation and Measurement, 1999, 48, 583-586.	4.7	130
11	Improved Frequency Measurement of a One-Dimensional Optical Lattice Clock with a Spin-Polarized Fermionic87Sr Isotope. Journal of the Physical Society of Japan, 2006, 75, 104302.	1.6	110
12	Measuring the frequency of a Sr optical lattice clock using a 120 km coherent optical transfer. Optics Letters, 2009, 34, 692.	3.3	102
13	Broad-spectrum frequency comb generation and carrier-envelope offset frequency measurement by second-harmonic generation of a mode-locked fiber laser. Optics Letters, 2003, 28, 1516.	3.3	92
14	One-Dimensional Optical Lattice Clock with a Fermionic¹⁷¹Yb Isotope. Applied Physics Express, 0, 2, 072501.	2.4	91
15	Coherent optical frequency transfer over 50-km physical distance using a 120-km-long installed telecom fiber network. Optics Express, 2008, 16, 16459.	3.4	86
16	Narrow linewidth comb realized with a mode-locked fiber laser using an intra-cavity waveguide electro-optic modulator for high-speed control. Optics Express, 2012, 20, 13769.	3.4	80
17	Deterministic Chaos in PassiveQ-Switching Pulsation of a CO2Laser with Saturable Absorber. Physical Review Letters, 1988, 60, 2266-2268.	7.8	73
18	Space gravitational-wave antennas DECIGO and B-DECIGO. International Journal of Modern Physics D, 2019, 28, 1845001.	2.1	73

#	Article	IF	Citations
19	Phase-locked widely tunable optical single-frequency generator based on a femtosecond comb. Optics Letters, 2005, 30, 2323.	3.3	69
20	Efficient 494 mW sum-frequency generation of sodium resonance radiation at 589 nm by using a periodically poled Zn:LiNbO_3 ridge waveguide. Optics Express, 2009, 17, 17792.	3.4	65
21	Absolute frequency measurement of an acetylene-stabilized laser at 1542 nm. Optics Letters, 2003, 28, 2324.	3.3	64
22	Improved Absolute Frequency Measurement of the ^{171}Yb Optical Lattice Clock towards a Candidate for the Redefinition of the Second. Applied Physics Express, 2012, 5, 102401.	2.4	61
23	Optical frequency standards for time and length applications. Measurement Science and Technology, 2017, 28, 012002.	2.6	61
24	Optical frequency link between an acetylene stabilized laser at 1542 nm and an Rb stabilized laser at 778 nm using a two-color mode-locked fiber laser. Optics Communications, 2000, 183, 181-187.	2.1	55
25	Displacement metrology with sub-pm resolution in air based on a fs-comb wavelength synthesizer. Optics Express, 2006, 14, 5984.	3.4	52
26	Frequency reproducibility of an iodine-stabilized Nd:YAG laser at 532 nm. Optics Communications, 2004, 235, 377-385.	2.1	49
27	Portable I/sub 2/-stabilized Nd:YAG laser for international comparisons. IEEE Transactions on Instrumentation and Measurement, 2001, 50, 486-489.	4.7	48
28	Generation of a frequency comb spanning more than 36 octaves from ultraviolet to mid infrared. Optics Letters, 2016, 41, 3980.	3.3	47
29	Rotation dependence of electric quadrupole hyperfine interaction in the ground state of molecular iodine by high-resolution laser spectroscopy. Journal of the Optical Society of America B: Optical Physics, 2001, 18, 379.	2.1	46
30	The Japanese space gravitational wave antenna - DECIGO. Journal of Physics: Conference Series, 2008, 122, 012006.	0.4	46
31	Spectroscopy of ^171Yb in an optical lattice based on laser linewidth transfer using a narrow linewidth frequency comb. Optics Express, 2013, 21, 7891.	3.4	46
32	Spectroscopy and frequency measurement of the⁸⁷Sr clock transition by laser linewidth transfer using an optical frequency comb. Applied Physics Express, 2014, 7, 012401.	2.4	44
33	Doppler-free spectroscopy of molecular iodine using a frequency-stable light source at 578 nm. Optics Express, 2009, 17, 1652.	3.4	43
34	A Fabryâ€“PÃ©rot Etalon with an Ultralow Expansion Ceramic Spacer. Japanese Journal of Applied Physics, 2013, 52, 032402.	1.5	43
35	Frequency ratio measurement of ^171Yb and ^87Sr optical lattice clocks. Optics Express, 2014, 22, 7898.	3.4	40
36	DECIGO and DECIGO pathfinder. Classical and Quantum Gravity, 2010, 27, 084010.	4.0	39

#	Article	IF	Citations
37	Frequency comparison of /sup 127/I/sub 2/-stabilized Nd:YAG lasers. IEEE Transactions on Instrumentation and Measurement, 1999, 48, 532-536.	4.7	37
38	High precision line profile measurements on 13C acetylene using a near infrared frequency comb spectrometer. Journal of Molecular Spectroscopy, 2008, 249, 95-99.	1.2	35
39	Precise determination of the Doppler width of a rovibrational absorption line using a comb-locked diode laser. Comptes Rendus Physique, 2009, 10, 907-915.	0.9	35
40	The Japanese space gravitational wave antenna; DECIGO. Journal of Physics: Conference Series, 2008, 120, 032004.	0.4	34
41	Precise Frequency Comparison System Using Bidirectional Optical Amplifiers. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 631-640.	4.7	34
42	Frequency measurement of acetylene-stabilized lasers using a femtosecond optical comb without carrier-envelope offset frequency control. Optics Express, 2005, 13, 1958.	3.4	33
43	Absolute frequency measurement of sub-Doppler molecular lines using a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>3.4</mml:mn><mml:mtext>â^’</mml:mtext><mml:mi>Î¼</mml:mi><mml:mtext>m</mml:mtext></mml:mrow></mml:math> spectrometer and a fiber-based frequency comb. Physical Review A, 2009, 80, .	2.5	33
44	Hyperfine structures of the R(122)35-0 and P(84)33-0 transitions of near 532 nm. Optics Communications, 2000, 183, 101-108.	2.1	31
45	DECIGO: The Japanese space gravitational wave antenna. Journal of Physics: Conference Series, 2009, 154, 012040.	0.4	30
46	Evaluation of the clock laser for an Yb lattice clock using an optic fiber comb. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 606-612.	3.0	28
47	Improved Frequency Measurement of the ¹S₀â€“³P₀ Clock Transition in ⁸⁷Sr Using a Cs Fountain Clock as a Transfer Oscillator. Journal of the Physical Society of Japan, 2015, 84, 115002.	1.6	26
48	Narrow linewidth laser system realized by linewidth transfer using a fiber-based frequency comb for the magneto-optical trapping of strontium. Optics Express, 2012, 20, 16010.	3.4	25
49	Ortho-Para-Dependent Pressure Effects Observed in the Near Infrared Band of Acetylene by Dual-Comb Spectroscopy. Physical Review Letters, 2016, 117, 143902.	7.8	25
50	Compact iodine-stabilized laser operating at 531 nm with stability at the 10^â^’12 level and using a coin-sized laser module. Optics Express, 2015, 23, 20749.	3.4	24
51	Demonstration of the nearly continuous operation of an¹⁷¹Yb optical lattice clock for half a year. Metrologia, 2020, 57, 065021.	1.2	24
52	Accurate frequency atlas of molecular iodine near 532 nm measured by an optical frequency comb generator. Optics Communications, 2001, 200, 209-215.	2.1	23
53	Doppler-free spectroscopy using a continuous-wave optical frequency synthesizer. Applied Optics, 2006, 45, 4910.	2.1	23
54	Optimized amplification of femtosecond optical pulses by dispersion management for octave-spanning optical frequency comb generation. Optics Communications, 2008, 281, 4484-4487.	2.1	23

#	Article	IF	Citations
55	A compact light source at 461 nm using a periodically poled LiNbO_3 waveguide for strontium magneto-optical trapping. Optics Express, 2011, 19, 2046.	3.4	23
56	Phase-shifting interferometry with equal phase steps by use of a frequency-tunable diode laser and a Fabryâ€“Perot cavity. Applied Optics, 2005, 44, 5403.	2.1	22
57	Frequency Measurement Capability of a Fiber-Based Frequency Comb at 633 nm. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 1234-1240.	4.7	22
58	Rotation dependence of the excited-state electric quadrupole hyperfine interaction by high-resolution laser spectroscopy of ^127I_2. Journal of the Optical Society of America B: Optical Physics, 2001, 18, 1416.	2.1	21
59	Vibration dependence of the tensor spinâ€“spin and scalar spinâ€“spin hyperfine interactions by precision measurement of hyperfine structures of ^127I_2 near 532 nm. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 946.	2.1	21
60	Compact I2-Stabilized Frequency-Doubled Nd:YAG Laser for Long Gauge Block Interferometer. Japanese Journal of Applied Physics, 2003, 42, 2867-2871.	1.5	21
61	Frequency measurements and hyperfine structure of the R(85)33â€“0 transition of molecular iodine with a femtosecond optical comb. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 88.	2.1	21
62	Fiber-comb-stabilized light source at 556 nm for magneto-optical trapping of ytterbium. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 1388.	2.1	21
63	Second harmonic generation at 399 nm resonant on the ^1S_0â^'^1P1 transition of ytterbium using a periodically poled LiNbO_3 waveguide. Optics Express, 2016, 24, 12142.	3.4	21
64	Frequency measurement of a Sr lattice clock using an SI-second-referenced optical frequency comb linked by a global positioning system (GPS). Optics Express, 2005, 13, 5253.	3.4	20
65	Absolute frequency measurements and hyperfine structures of the molecular iodine transitions at 578â€‰â€‰nm. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 725.	2.1	20
66	Optical Frequency Metrology Study on Nonlinear Processes in a Waveguide Device for Ultrabroadband Comb Generation. Physical Review Applied, 2019, 11, .	3.8	19
67	Phase locking of a continuous-wave optical parametric oscillator to an optical frequency comb for optical frequency synthesis. IEEE Journal of Quantum Electronics, 2004, 40, 929-936.	1.9	18
68	DECIGO pathfinder. Classical and Quantum Gravity, 2009, 26, 094019.	4.0	18
69	Frequency stabilization of a 1319-nm Nd:YAG laser by saturation spectroscopy of molecular iodine. Optics Letters, 2004, 29, 1733.	3.3	17
70	Optimization of the process variables for the synthesis of starchâ€based biodegradable resin using response surface methodology. Journal of Applied Polymer Science, 2011, 119, 1797-1804.	2.6	17
71	Improvements to the Volume Measurement of ²⁸Si Spheres to Determine the Avogadro Constant. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1650-1656.	4.7	17
72	Uncertainty Evaluation of an ¹⁷¹Yb Optical Lattice Clock at NMIJ. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 2449-2458.	3.0	17

#	Article	IF	Citations
73	International comparison of127I2-stabilized frequency-doubled Nd:YAG lasers between the BIPM, the NRLM and the BNM-INM, October 2000. Metrologia, 2001, 38, 567-572.	1.2	16
74	Comparison of independent optical frequency measurements using a portable iodine-stabilized nd:yag laser. IEEE Transactions on Instrumentation and Measurement, 2003, 52, 240-244.	4.7	16
75	Rubidium-stabilized diode laser for high-precision interferometer. Optical Engineering, 2004, 43, 900.	1.0	15
76	Development of 8-branch Er:fiber frequency comb for Sr and Yb optical lattice clocks. Optics Express, 2019, 27, 6404.	3.4	14
77	Instability and chaos in two-mode oscillation of aCO2laser modulated by a saturable absorber. Physical Review A, 1991, 43, 1498-1501.	2.5	13
78	Optical Frequency Stability Measurement of an External Cavity Blue Diode Laser with an Optical Frequency Comb. Japanese Journal of Applied Physics, 2008, 47, 8856-8858.	1.5	13
79	Dual-Mode Operation of an Optical Lattice Clock Using Strontium and Ytterbium Atoms. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1069-1075.	3.0	13
80	Evaluation of laser frequency offset locking using an electrical delay line. Applied Optics, 2018, 57, 5628.	1.8	13
81	Gauge block interferometer using three frequency-stabilized lasers. , 2001, 4401, 288.		12
82	Results from international comparisons at the bipm providing a world-wide reference network of /sup 127/ I/sub 2/ stabilized frequency-doubled nd:yag lasers. IEEE Transactions on Instrumentation and Measurement, 2003, 52, 236-239.	4.7	12
83	<title>Portable I2-stabilized Nd:YAG laser for wavelength standards at 532 nm and 1064 nm</title>. , 1998, , .		11
84	OPTICAL FREQUENCY STANDARD AT 1.5 Âμm BASED ON DOPPLER-FREE ACETYLENE ABSORPTION. , 2002, , .		11
85	Hyperfine structure and absolute frequency determination of the R(121)35-0 and P(142)37-0 transitions of near 532 nm. Optics Communications, 2002, 212, 89-95.	2.1	11
86	Optical Frequency Synthesis From a Cryogenic Sapphire Oscillator Using a Fiber-Based Frequency Comb. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 632-636.	4.7	11
87	Generation of five phase-locked harmonics by implementing a divide-by-three optical frequency divider. Optics Letters, 2015, 40, 5802.	3.3	11
88	Compact and inexpensive iodine-stabilized diode laser system with an output at 531 nm for gauge block interferometers. Precision Engineering, 2017, 47, 528-531.	3.4	11
89	Two-step frequency conversion for connecting distant quantum memories by transmission through an optical fiber. Japanese Journal of Applied Physics, 2018, 57, 062801.	1.5	11
90	Iodine-stabilized laser at telecom wavelength using dual-pitch periodically poled lithium niobate waveguide. Optics Express, 2020, 28, 2166.	3.4	11

#	Article	IF	Citations
91	OPTICAL FREQUENCY MEASUREMENT USING AN ULTRAFAST MODE-LOCKED LASER AT NMIJ/AIST. , 2002, , .		10
92	Stability Degradation Factors Evaluated by Phase Noise Measurement in an Optical-Microwave Frequency Link Using an Optical Frequency Comb. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 763-766.	4.7	10
93	Narrow-linewidth and highly stable optical frequency comb realized with a simple electro-optic modulator system in a mode-locked Er:fiber laser. Japanese Journal of Applied Physics, 2019, 58, 038003.	1.5	10
94	Chaotic passive Q-switching pulsation in a N_2O laser with a saturable absorber. Journal of the Optical Society of America B: Optical Physics, 1989, 6, 1378.	2.1	9
95	International comparisons of He-Ne lasers stabilized with127I2at Â = 633 nm (July 1997). Part VIII: Comparison of NIM (China), NRLM (Japan), KRISS (Republic of Korea) and BIPM lasers at Â = 633 nm. Metrologia, 2001, 38, 181-186.	1.2	9
96	Transition dipole-moment of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si25.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi>Î½</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> band of acetylene measured with dual-comb Fourier-transform spectroscopy. Journal of Molecular Spectroscopy, 2017, 341, 10-16.	1.2	9
97	Evaluation of Fiber Noise Induced in Ultrastable Environments. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2246-2252.	4.7	9
98	High-resolution spectroscopy and laser frequency stabilization using a narrow-linewidth planar-waveguide external cavity diode laser at 1063â€‰â€‰nm. Optics Letters, 2020, 45, 129.	3.3	9
99	Frequency reproducibility of I 2 -stabilized Nd:YAG lasers. , 2001, , .		8
100	A frequency-stabilized light source at 399 nm using an Yb hollow-cathode lamp. Japanese Journal of Applied Physics, 2018, 57, 062501.	1.5	8
101	Improved frequency ratio measurement with ⁸⁷Sr and ¹⁷¹Yb optical lattice clocks at NMIJ. Metrologia, 2021, 58, 015008.	1.2	8
102	Present status of the development of an Yb optical lattice clock at NMIJ/AIST (National Metrology) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 SPIE, 2007, , .	0.8	7
103	DECIGO PATHFINDER. International Journal of Modern Physics D, 2013, 22, 1341002.	2.1	7
104	Passive Q-switching instability and bistability of a N_2O laser with intracavity saturable absorber. Journal of the Optical Society of America B: Optical Physics, 1988, 5, 2315.	2.1	6
105	A CompactI2-Stabilized 532 nm Nd:YAG Laser. Japanese Journal of Applied Physics, 1997, 36, 4333-4334.	1.5	6
106	Optical Frequency Measurement Using Chirped-Mirror-Dispersion-Controlled Mode-Locked Ti:Al2O3Laser. Japanese Journal of Applied Physics, 2006, 45, 5051-5062.	1.5	6
107	All-optically stabilized frequency comb. Applied Physics Express, 2015, 8, 122701.	2.4	6
108	Sub-Doppler resolution mid-infrared spectroscopy using a difference-frequency-generation source spectrally narrowed by laser linewidth transfer. Optics Letters, 2015, 40, 5467.	3.3	6

#	Article	IF	Citations
109	Precision spectroscopy and frequency stabilization using coin-sized laser modules. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 631.	2.1	6
110	Absolute frequency and hyperfine structure of ¹²⁷I₂ transitions at 531.5â€‰â€‰nm by precision spectroscopy using a narrow-linewidth diode laser. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1027.	2.1	6
111	Coupling of a quantum memory and telecommunication wavelength photons for high-rate entanglement distribution in quantum repeaters. Optics Express, 2021, 29, 41522.	3.4	6
112	Frequency control of a chirped-mirror-dispersion-controlled mode-locked Ti:Al 2 O 3 laser for comparison between microwave and optical frequencies. , 2001, , .		5
113	DECIGO pathfinder. Journal of Physics: Conference Series, 2008, 120, 032005.	0.4	5
114	Offset-locking-based frequency stabilization of external cavity diode lasers for long-distance quantum communication. Japanese Journal of Applied Physics, 2021, 60, 122001.	1.5	5
115	Space-based detectors. General Relativity and Gravitation, 2014, 46, 1.	2.0	4
116	Novel phase-locking schemes for the carrier envelope offset frequency of an optical frequency comb. Applied Physics Express, 2015, 8, 112402.	2.4	4
117	Towards generation of optical frequency comb in the short-wavelength visible region using periodically poled lithium niobate waveguides. Results in Optics, 2021, 2, 100035.	2.0	4
118	Frequency noise measurement and its uncertainty estimation of an optical frequency comb using a delay line interferometer. Measurement Science and Technology, 2020, 31, 125012.	2.6	4
119	Primordial gravitational wave and DECIGO. , 2019, , .		4
120	Deterministic Chaos in PassiveQ-Switching Pulsation of a CO2Laser with Saturable Absorber. Physical Review Letters, 1988, 61, 1042-1042.	7.8	3
121	Observation of instabilities in hot-band oscillation of a CO_2 laser with a saturable absorber. Journal of the Optical Society of America B: Optical Physics, 1992, 9, 1305.	2.1	3
122	A Precise Frequency Comparison System Using an Optical Carrier. Electronics and Communications in Japan, 2015, 98, 19-27.	0.5	3
123	Iwakuni et al . Reply:. Physical Review Letters, 2017, 119, 069402.	7.8	3
124	Space gravitational wave antenna DECIGO and B-DECIGO. CEAS Space Journal, 2017, 9, 371-377.	2.3	3
125	Spectral normalization in dual-comb spectroscopy of acetylene using a sealed gas cell and a liquid nitrogen trap. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 1024.	2.1	3
126	Erbium-Fiber-Based Visible Astro-Comb with 42-GHz Mode Spacing. , 2018, , .		3

#	Article	IF	Citations
127	Inverted fine structure in highly excited2FRydberg states of indium. Physical Review A, 1995, 51, 1994-1998.	2.5	2
128	Modulation-Free Saturated Dispersion Spectroscopy of I2Using a Common-Path Two-Colour Interferometer with a Nd:YAG Laser. Japanese Journal of Applied Physics, 2000, 39, 1918-1919.	1.5	2
129	Extension of frequency atlas of molecular iodine at 532 nm. , 0, , .		2
130	Accurate Frequency Atlas of 1.5 Â¿m Band of Acetylene Measured by a Mode-Locked Fiber Laser. , 2004, , .		2
131	Present Status of the Development of the Yb Optical Lattice Clock at NMIJ/AIST. LEOS Summer Topical Meeting, 2007, , .	0.0	2
132	Frequency comparison of two fiber-based frequency combs at 633 nm. , 2008, , .		2
133	Frequency Metrology with Optical Lattice Clocks. Japanese Journal of Applied Physics, 2010, 49, 080001.	1.5	2
134	ULTRAHIGH-REPETITION-RATE PULSE TRAIN WITH ABSOLUTE-PHASE CONTROL PRODUCED BY AN ADIABATIC RAMAN PROCESS. , 2010, , .		2
135	Development of 19.8 MHz repetition rate optical frequency combs for dual-comb spectroscopy. Japanese Journal of Applied Physics, 2020, 59, 028002.	1.5	2
136	Generation of 116ÂmW output power at 461 nm in a periodically poled lithium niobate waveguide. Japanese Journal of Applied Physics, 2022, 61, 020701.	1.5	2
137	Transfer of linewidth and frequency stability from an iodine-stabilized Nd:YAG laser to a quantum memory control laser through an optical frequency comb. Japanese Journal of Applied Physics, 2022, 61, 088003.	1.5	2
138	Instability in a CO_2 sequence-band laser with a saturable absorber and vibration-to-vibration energy transfer processes. Journal of the Optical Society of America B: Optical Physics, 1993, 10, 265.	2.1	1
139	Laser and Microwave Study of Fine and Hyperfine Structures in High Rydbeg States of Indium. Japanese Journal of Applied Physics, 1994, 33, 1696-1700.	1.5	1
140	Determination of Collisional Quenching Rate for the 4D3/2State in SrII. Japanese Journal of Applied Physics, 1998, 37, 5767-5771.	1.5	1
141	An arbitrary optical single-frequency generator based on a femtosecond frequency comb. , 0, , .		1
142	Development of an Yb optical lattice clock using a fermionic isotope. Proceedings of SPIE, 2009, , .	0.8	1
143	All-fiber-based frequency comb with an intra-cavity waveguide electro-optic modulator. , 2010, , .		1
144	The CCL-K11 ongoing key comparison: final report for the year 2010. Metrologia, 2011, 48, 04001-04001.	1.2	1

#	Article	IF	Citations
145	National standards of length for high-capacity optical fiber communication systems. Synthesiology, 2014, 7, 65-78.	0.2	1
146	Detection and Evaluation of Fiber Noise Induced in Ultra-Stable Environments. , 2018, , .		1
147	Hyperfine structure of molecular iodine measured using a light source with a laser linewidth at the megahertz level. OSA Continuum, 2021, 4, 1452.	1.8	1
148	Toward an optical frequency comb with relative frequency uncertainty at 10â^'21-level. , 2012, , .		1
149	Compact frequency-stabilized pump laser for wavelength conversion in long-distance quantum communication. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 2023.	2.1	1
150	An accurate optical frequency measurement system using an optical frequency comb and an acetylene-stabilized laser. , 2005, , .		1
151	National length standard supporting high-capacity optical fiber communication systems. Synthesiology, 2014, 7, 68-80.	0.2	1
152	Frequency-Control Characteristics of an Erbium-Based Mode-Locked Fiber Laser with an Optically Pumped Ytterbium Fiber. , 2015, , .		1
153	High-Precision Spectroscopy Using Ultra-Compact Lasers. , 2016, , .		1
154	The CCL-K11 ongoing key comparison. Final report for the year 2014. Metrologia, 2017, 54, 04001-04001.	1.2	1
155	Laser frequency measurement in the short-wavelength region using an intermediate laser and a frequency noise cancellation method. Optics Letters, 2022, 47, 30.	3.3	1
156	Laser instability as a method to study relaxation processes among highly excited vibrational levels. , 1992, , .		0
157	Nonlinear optics to measure the frequency of iodine-stabilized Nd:YAG. , 1998, , .		0
158	Frequency comparison of /sup 127/I/sub 2/-stabilized Nd:YAG lasers. , 0, , .		0
159	Collisional Quenching Rates by He, N2and CH4for the 4D3/2State in SrII. Japanese Journal of Applied Physics, 1999, 38, 3747-3748.	1.5	0
160	Frequency uncertainty of I/sub 2/-stabilized Nd:YAG lasers. , 0, , .		0
161	Optical frequency measurement by a one-octave optical frequency comb generated by an ultra-fast mode-locked laser and a photonic-crystal fiber. , 0, , .		0
162	Broad-spectrum frequency comb generation and carrier-envelope offset frequency measurement using the second harmonic generation of a mode-locked fiber laser. , 2003, , .		0

#	Article	IF	Citations
163	Optical Frequency Measurements and Standards at Near Infrared. , 2004, , .		0
164	Phase-shifting laser diode interferometry with equal phase steps using a Fabry-Perot cavity. , 2005, , .		0
165	Absolute frequency measurement of an acetylene-stabilized laser at 1542 nm without carrier-envelope offset frequency control. , 2005, , .		0
166	Optical lattice clock. , 0, , .		0
167	Absolute frequency measurement of an acetylene-stabilized laser at 1542 nm. , 0, , .		0
168	Development of an Optical Lattice Clock in NMIJ, AIST. , 2006, , .		0
169	Optical Lattice Clock: Precision Frequency Measurement. , 2006, , .		0
170	Displacement metrology setup with sub-pm stability in air utilizing a fs-comb based wavelength synthesizer. , 2006, , .		0
171	A light source for the ¹S<inf>0</inf>-³P<inf>0</inf> optical clock transition in ytterbium. , 2006, , .		0
172	Precise time and frequency transfer link used for the uncertainty evaluation of Sr. optical lattice clock. Proceedings of SPIE, 2007, , .	0.8	0
173	Frequency Measurement of an Optical Lattice Clock. LEOS Summer Topical Meeting, 2007, , .	0.0	0
174	An iodine-stabilized Yb:YAG laser. , 2008, , .		0
175	Absorption line profile measurement of rovibrational transition of acetylene molecule using a fiber comb spectrometer. , 2008, , .		0
176	Development of a light source with a sub-hertz linewidth for an Yb optical lattice clock. , 2008, , .		0
177	Magneto-optical trapping of Yb atoms using an intercombination transition with an optical frequency comb: For realizing an Yb optical lattice clock. , 2008, , .		0
178	Efficient 494-mW Sum-frequency Generation of 589-nm Light by Using a Periodically Poled LiNbO<inf>3</inf> Ridge Waveguide. , 2009, , .		0
179	Development of an ultra-narrow-linewidth laser for interrogating the ¹S<inf>0</inf> - ³P<inf>0</inf> Clock Transition in Yb atoms. , 2009, , .		0
180	Development of An 171Yb Optical Lattice Clock. The Review of Laser Engineering, 2010, 38, 500-504.	0.0	0

#	Article	IF	Citations
181	Yb Optical Lattice Clock at NMIJ, AIST. , 2010, , .		0
182	Toward the Yb/Sr frequency ratio measurement: Development of the Sr optical lattice clock at NMIJ, AIST. , 2010, , .		0
183	Improvement of the ¹⁷¹Yb optical lattice clock at NMIJ, AIST. , 2010, , .		0
184	Low noise optical frequency synthesizer for optical lattice clocks. , 2010, , .		0
185	Fiber-based frequency combs with millihertz-level relative linewidths for optical lattice clocks. , 2010, , .		0
186	Absolute frequency measurement of ¹⁷¹Yb in a one-dimensional optical lattice. , 2010, , .		0
187	Fiber-based frequency combs and optical lattice clocks. , 2010, , .		0
188	A new clock laser system for an Yb optical lattice clock using a fibre-based frequency comb stabilized to a narrow linewidth laser at 1064 nm. , 2010, , .		0
189	Optical frequency metrology with ytterbium and strontium optical lattice clocks. , 2011, , .		0
190	THz-Spaced Raman Comb with An Accuracy Transferred from An Absolute Frequency. The Review of Laser Engineering, 2011, 39, 836-841.	0.0	0
191	Current status of the¹⁷¹Yb optical lattice clock at NMIJ, AIST. Proceedings of SPIE, 2011, , .	0.8	0
192	Optical frequency metrology with optical lattice clocks and optical frequency combs. , 2012, , .		0
193	Precision measurement with optical frequency combs and clocks. , 2013, , .		0
194	Towards a new clock laser system using a ceramic cavity and laser linewidth transfer technique. , 2013, , .		0
195	Optical frequency measurement comparison using fiber laser combs between CMS and NMIJ. , 2013, , .		0
196	Development and Applications of Time and Frequency Standards. Journal of the Japan Society for Precision Engineering, 2014, 80, 634-637.	0.1	0
197	Developments of optical lattice clock frequency standards and their remote comparisons. , 2014, , .		0
198	Evaluation of an ultra-stable laser system based on a linewidth transfer method for optical clocks. , 2014, , .		0

#	Article	IF	Citations
199	Laser Frequency Calibration System with Optical Frequency Comb Linked to National Standard of Frequency. Journal of the Japan Society for Precision Engineering, 2015, 81, 881-884.	0.1	0
200	Sub-Doppler laser spectroscopy of molecular iodine at 578 nm. , 2016, , .		0
201	Development of an 8-branch optical frequency comb for laser frequency stabilization. , 2017, , .		0
202	Status report on an 171Yb optical lattice clock at NMIJ. , 2019, , .		0
203	An Iodine-Stabilized Laser using a 1542-nm Light Source. , 2019, , .		0
204	Development of an operational Yb optical lattice clock towards contribution to the International Atomic Time. , 2020, , .		0
205	High-resolution spectroscopy of molecular iodine using a narrow-linewidth laser at telecom wavelength. , 2021, , .		0
206	SIMULATE ION TRAPS WITH NEUTRAL ATOMS: STARK ATOM CHIP AND OPTICAL LATTICE CLOCK. , 2005, , .		0
207	Absolute frequency measurement of optical lattice clock. The Review of Laser Engineering, 2006, 34, 5-6.	0.0	0
208	Dispersion management of femtosecond pulse amplification for octave-spanning optical frequency comb generation. , 2008, , .		0
209	Octave-spanning comb generation and optical frequency measurement using mode-locked fiber lasers. The Review of Laser Engineering, 2008, 36, 26-27.	0.0	0
210	DECIGO: THE JAPANESE SPACE GRAVITATIONAL WAVE ANTENNA. , 2008, , .		0
211	A low-noise, octave-spanning optical frequency comb generated by a mode-locked fiber laser with an intracavity electro-optic modulator. , 2009, , .		0
212	Measuring Time Using Next Generation Atomic Clocks. Journal of the Society of Mechanical Engineers, 2011, 114, 858-859.	0.0	0
213	Octave-spanning Comb with a Wide Frequency Interval of Molecular Rotational Raman Transition. Journal of the Korean Physical Society, 2011, 59, 2953-2955.	0.7	0
214	Progress of the 171Yb Optical Lattice Clock at NMIJ, AIST. , 2012, , .		0
215	Improved Absolute Frequency Measurement of the 171Yb Optical Lattice Clock towards the Redefinition of the Second. , 2013, , .		0
216	Ultra-Broadband Near-Infrared Dual-Comb Spectroscopy. , 2014, , .		0

#	Article	IF	Citations
217	Study on a Precise Frequency Comparison System using an Optical Carrier. IEEJ Transactions on Electronics, Information and Systems, 2014, 134, 526-533.	0.2	0
218	Visible to Mid-Infrared Frequency Comb Generation Using a Waveguide PPLN. , 2015, , .		0
219	A compact iodine-stabilized diode laser at 531 nm. , 2015, , .		0
220	Frequency Division in the Optical Frequency Region and Generation of Phase-Locked High Harmonics. The Review of Laser Engineering, 2015, 43, 517.	0.0	0
221	Research Activities of Optical Frequency Standards and Combs. Journal of the Institute of Electrical Engineers of Japan, 2017, 137, 418-421.	0.0	0
222	Modulation-Free Frequency-Stabilized Laser at 1.5 Î¼m Using a Narrow-Linewidth Diode Laser. , 2017, , .		0
223	Generation of five phase-locked harmonics in the continuous wave regime and its potential application to arbitrary optical waveform synthesis. , 2017, , .		0
224	Frequency-Stabilized Pump Laser for Wavelength Conversion in Long-Distance Quantum Communication. , 2018, , .		0
225	Ultra-Compact Frequency-Stabilized Lasers at Visible Wavelengths. , 2018, , .		0
226	Optical Frequency Combs and Frequency-Stabilized Lasers. The Review of Laser Engineering, 2018, 46, 379.	0.0	0
227	A High-Speed-Controllable Fiber Comb Using a Compact Optical-Bench System. , 2018, , .		0
228	Determination of the offset frequency of a broadband frequency comb generated in a waveguide-type periodically poled lithium niobate crystal. , 2018, , .		0
229	Offset Frequency Measurement of a Broadband Optical Comb Generated in a Waveguide-Type Periodically Poled Lithium Niobate Crystal. , 2018, , .		0
230	An 8-branch optical frequency comb for laser frequency stabilization and measurement in optical lattice clocks. , 2018, , .		0
231	Narrow-linewidth and highly stable optical frequency comb realized with a simple servo control system in a mode-locked Er:fiber laser. , 2019, , .		0
232	An iodine-stabilized laser at the telecom wavelength using a dual-pitch PPLN waveguide. , 2019, , .		0
233	Ultra-Broadband Single-Branch Optical Frequency Comb Using a Periodically Poled Lithium Niobate Waveguide. , 2020, , .		0
234	Laser frequency stabilization using a 2-m-long iodine cell. , 2020, , .		0

#	Article	IF	Citations
235	Sr optical lattice clock assisted by optical frequency combs for contribution to International Atomic Time. , 2020, , .		0
236	FIRST OBSERVATION OF DETERMINISTIC CHAOS IN PASSIVE Q-SWITCHING PULSATION. Journal De Physique Colloque, 1988, 49, C2-413-C2-416.	0.2	0