Takeshi Ikegami

List of Publications by Year
in descending order

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70 papers	1,835 citations	430874 18 h-index	265206 42 g-index
70 all docs	70 docs citations	70 times ranked	1552 citing authors

#	Article	IF	Citations
1	The Japanese space gravitational wave antenna: DECIGO. Classical and Quantum Gravity, 2011, 28, 094011.	4.0	456
2	The Japanese space gravitational wave antennaâ€"DECIGO. Classical and Quantum Gravity, 2006, 23, S125-S131.	4.0	388
3	The status of DECIGO. Journal of Physics: Conference Series, 2017, 840, 012010.	0.4	148
4	Measuring the frequency of a Sr optical lattice clock using a 120 km coherent optical transfer. Optics Letters, 2009, 34, 692.	3.3	102
5	Space gravitational-wave antennas DECIGO and B-DECIGO. International Journal of Modern Physics D, 2019, 28, 1845001.	2.1	73
6	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
7	DECIGO and DECIGO pathfinder. Classical and Quantum Gravity, 2010, 27, 084010.	4.0	39
8	The Japanese space gravitational wave antenna; DECIGO. Journal of Physics: Conference Series, 2008, 120, 032004.	0.4	34
9	DECIGO: The Japanese space gravitational wave antenna. Journal of Physics: Conference Series, 2009, 154, 012040.	0.4	30
10	Frequency Stabilization of Laser Diodes to the Cs-D2Line with the Zeeman Modulation Method. Japanese Journal of Applied Physics, 1989, 28, L1839-L1841.	1.5	29
11	Phase-coherent optical frequency division by 3 of 532-nm laser light with a continuous-wave optical parametric oscillator. Optics Letters, 1999, 24, 1856.	3.3	29
12	Atomic fountain clock with very high frequency stability employing a pulse-tube-cryocooled sapphire oscillator. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1463-1469.	3.0	26
13	Improved Frequency Measurement of the ¹<i>S</i>₀â€"³<i>P</i>₀ 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
14	High-contrast dark resonances with linearly polarized light on the D_1 line of alkali atoms with large nuclear spin. Applied Optics, 2009, 48, 1098.	2.1	25
15	Doppler-free spectroscopy using a continuous-wave optical frequency synthesizer. Applied Optics, 2006, 45, 4910.	2.1	23
16	Light shifts in an optically pumped Cs beam frequency standard. IEEE Transactions on Instrumentation and Measurement, 1991, 40, 1003-1007.	4.7	22
17	Characteristics of a cw monolithic optical parametric oscillator. Applied Physics B: Lasers and Optics, 1998, 66, 719-725.	2.2	19
18	Short Term Frequency Stability Tests of Two Cryogenic Sapphire Oscillators. Japanese Journal of Applied Physics, 2006, 45, 9234-9237.	1.5	19

#	Article	IF	Citations
19	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
20	DECIGO pathfinder. Classical and Quantum Gravity, 2009, 26, 094019.	4.0	18
21	Surface activated room-temperature bonding in Ar gas ambient for MEMS encapsulation. Japanese Journal of Applied Physics, 2018, 57, 02BA04.	1.5	17
22	Characteristics of an optically pumped Cs frequency standard at the NRLM. IEEE Transactions on Instrumentation and Measurement, 1989, 38, 533-536.	4.7	16
23	A beam reversal experiment for the estimation of microwave power shifts in an optically pumped Cs beam frequency standard. IEEE Transactions on Instrumentation and Measurement, 1989, 38, 1100-1103.	4.7	15
24	Accuracy of an optical parametric oscillator as an optical frequency divider. Optics Communications, 1996, 127, 69-72.	2.1	15
25	Preliminary Evaluation of the Cesium Fountain Primary Frequency Standard NMIJ-F2. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 2504-2512.	4.7	15
26	Cesium Atomic Fountain with Two-Dimensional Moving Molasses. Japanese Journal of Applied Physics, 1995, 34, L1170-L1173.	1.5	14
27	Long-term, mode-hop-free operation of a continuous-wave, doubly resonant, monolithic optical parametric oscillator. Optics Communications, 2000, 184, 13-17.	2.1	12
28	Mode-locked laser-type optical atomic clock with an optically pumped Cs gas cell. Optics Letters, 2007, 32, 1241.	3.3	11
29	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
30	Reference Signal Synthesized from a Cryogenic Sapphire Oscillator Improved by Power Control Servo. Japanese Journal of Applied Physics, 2006, 45, 2827-2829.	1.5	9
31	External cavity diode laser with very-low frequency drift. Applied Physics Express, 2016, 9, 032704.	2.4	9
32	Microwave Local Oscillator for a Cesium Frequency Standard Synthesized from a Cryogenic Sapphire Oscillator. Japanese Journal of Applied Physics, 2005, 44, 3283-3286.	1.5	8
33	Frequency measurement of accurate sidebands of an optical frequency comb generator. Optics Communications, 1997, 135, 223-226.	2.1	7
34	Numerical Simulation of Distributed Cavity Phase Shift in Atomic Fountain Frequency Standard. Japanese Journal of Applied Physics, 2005, 44, 1468-1475.	1.5	7
35	Reevaluation of the Optically Pumped Cesium Frequency Standard NRLM-4 With an H-Bend Ring Cavity. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 2212-2217.	4.7	7
36	Cryogenic-Sapphire-Oscillator-Based Reference Signal at 1 GHz with 10-15Level Instability. Japanese Journal of Applied Physics, 2008, 47, 7390-7392.	1.5	7

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37	Optical Frequency Measurement Using Chirped-Mirror-Dispersion-Controlled Mode-Locked Ti:Al2O3Laser. Japanese Journal of Applied Physics, 2006, 45, 5051-5062.	1.5	6
38	Long Term Operation of a CW Doubly Resonant Optical Parametric Oscillator. Japanese Journal of Applied Physics, 1996, 35, 2690-2691.	1.5	5
39	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
40	Regeneratively mode-locked fiber laser with a repetition rate stability of 49Ã—10^â˜15 using a hydrogen maser phase-locked loop. Optics Letters, 2007, 32, 1827.	3.3	5
41	Atomic and molecular spectroscopy with a continuous-wave, doubly resonant, monolithic optical parametric oscillator. Optics Communications, 2007, 269, 188-193.	2.1	5
42	Broadly tunable ultraviolet light generation in a compact MgO-doped periodically-poled stoichiometric lithium tantalate optical parametric oscillator with a high-Q cavity. Applied Optics, 2008, 47, 5762.	2.1	5
43	DECIGO pathfinder. Journal of Physics: Conference Series, 2008, 120, 032005.	0.4	5
44	External cavity diode laser with frequency drift following natural variation in air pressure. Applied Optics, 2015, 54, 5777.	2.1	5
45	Development of a frequencyâ€stabilized compact light source for an optically pumped Cs frequency standard. Review of Scientific Instruments, 1990, 61, 3719-3721.	1.3	4
46	Uncertainty Evaluation of $-$100-dBc/Hz Flat Phase Noise Standard at 10 MHz. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1545-1549.	4.7	4
47	<title>Low-threshold and stable optical parametric oscillator for optical frequency division</title>. , 1995, 2379, 192.		3
48	Differential Temperature Controller for Stable Temperature Control of a Nonlinear Optical Crystal at Approximately 200Â°C. Japanese Journal of Applied Physics, 2000, 39, 4814-4815.	1.5	3
49	Development of an Intensity Stabilized Laser System with Frequency Offset of 9.2 GHz. Japanese Journal of Applied Physics, 2003, 42, L924-L926.	1.5	3
50	Ultrastable cesium atomic clock with a 91926-GHz regeneratively mode-locked fiber laser. Optics Letters, 2005, 30, 1512.	3.3	3
51	Analysis of Truncation Error for Dual-Mixer Time-Difference Measurement System Using Discrete Fourier Transformation. Japanese Journal of Applied Physics, 2013, 52, 036601.	1.5	3
52	Recent progress of an atomic fountain frequency standard NMIJ-F1 (2006 – 2007). , 2008, , .		2
53	Signal with Flat Phase Noise Using a Carrier and the Power Spectral Density of White Noise for Phase Noise Standards. Japanese Journal of Applied Physics, 2012, 51, 018002.	1.5	2
54	Generation of incoherent light from a laser diode subject to external optical injection from a superluminescent diode. Applied Optics, 2014, 53, 435.	1.8	2

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55	Influence of Electrochromic Damage of a KTiOPO4Crystal on a Phase-Locked CW Optical Parametric Oscillator. Japanese Journal of Applied Physics, 1996, 35, 3459-3460.	1.5	1
56	Characteristics of continuous-wave double-resonant optical parametric oscillators as spectroscopic tools. , 2001, , .		1
57	Continuous-wave RbTiOAsO4Optical Parametric Oscillator in Optical Frequency Interval Divider Scheme. Japanese Journal of Applied Physics, 2001, 40, 134-136.	1.5	1
58	Autonomous cryogenic sapphire oscillators employing low vibration pulse-tube cryocoolers at NMIJ. Journal of Physics: Conference Series, 2016, 723, 012032.	0.4	1
59	Influence of the Sampling Clock on the Precise Phase Noise Measurement. IEEJ Transactions on Fundamentals and Materials, 2016, 136, 455-457.	0.2	1
60	Magnetic-field-insensitive coherent-population-trapping resonances excited by bichromatic linearly polarized fields on the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>D</mml:mi><mml:mn>1</mml:mn></mml:msub></mml:m line of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Cs</mml:mi><mml:mprescripts /><mml:none /><mml:mn>133</mml:mn></mml:mmultiscripts></mml:math>. Physical Review A, 2022, 105, .	2.5	1
61	Laser cooling and trapping experiments for cesium atoms in NRLM. , 1993, , .		0
62	Monolithic cw optical parametric oscillators for optical frequency measurement. , 0, , .		0
63	Broadly tunable mW level UV light generated by intracavity SFG in a compact high-Q PPMgSLT OPO. , 2007, , .		0
64	Dark resonance in bichromatic linearly polarized optical field on Cs D<inf>1</inf> line. , 2008, , .		0
65	Progress of the fountain frequency standard at NMIJ in 2008. , 2009, , .		0
66	Proposal of a truncated atomic beam fountain for reduction of collisional frequency shift. Physical Review A, 2010, 82, .	2.5	0
67	−100 dBc/Hz flat phase noise signal at 10 MHz for phase noise standards. , 2012, , .		0
68	Recent progress of development of cesium fountain primary frequency standard NMIJ-F2. , 2018, , .		0
69	Signal with Flat Phase Noise Using a Carrier and the Power Spectral Density of White Noise for Phase Noise Standards. Japanese Journal of Applied Physics, 2012, 51, 018002.	1.5	0
70	An Ultra-Stable Microwave Oscillator using a Cryogenic Sapphire Crystal Towards the Most Stable Oscillator on Earth. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 2015, 50, 322-329.	0.1	0