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	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:math> 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
2	Space gravitational-wave antennas DECIGO and B-DECIGO. International Journal of Modern Physics D, 2019, 28, 1845001.	2.1	73
3	Surface activated room-temperature bonding in Ar gas ambient for MEMS encapsulation. Japanese Journal of Applied Physics, 2018, 57, 02BA04.	1.5	17
4	Recent progress of development of cesium fountain primary frequency standard NMIJ-F2. , 2018, , .		0
5	The status of DECIGO. Journal of Physics: Conference Series, 2017, 840, 012010.	0.4	148
6	Autonomous cryogenic sapphire oscillators employing low vibration pulse-tube cryocoolers at NMIJ. Journal of Physics: Conference Series, 2016, 723, 012032.	0.4	1
7	External cavity diode laser with very-low frequency drift. Applied Physics Express, 2016, 9, 032704.	2.4	9
8	Influence of the Sampling Clock on the Precise Phase Noise Measurement. IEEJ Transactions on Fundamentals and Materials, 2016, 136, 455-457.	0.2	1
9	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
10	Preliminary Evaluation of the Cesium Fountain Primary Frequency Standard NMIJ-F2. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 2504-2512.	4.7	15
11	External cavity diode laser with frequency drift following natural variation in air pressure. Applied Optics, 2015, 54, 5777.	2.1	5
12	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
13	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
14	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
15	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
16	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
17	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
18	−100 dBc/Hz flat phase noise signal at 10 MHz for phase noise standards. , 2012, , .		0

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19	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
20	The Japanese space gravitational wave antenna: DECIGO. Classical and Quantum Gravity, 2011, 28, 094011.	4.0	456
21	Proposal of a truncated atomic beam fountain for reduction of collisional frequency shift. Physical Review A, 2010, 82, .	2.5	0
22	DECIGO and DECIGO pathfinder. Classical and Quantum Gravity, 2010, 27, 084010.	4.0	39
23	Progress of the fountain frequency standard at NMIJ in 2008. , 2009, , .		0
24	DECIGO pathfinder. Classical and Quantum Gravity, 2009, 26, 094019.	4.0	18
25	Measuring the frequency of a Sr optical lattice clock using a 120 km coherent optical transfer. Optics Letters, 2009, 34, 692.	3.3	102
26	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
27	DECIGO: The Japanese space gravitational wave antenna. Journal of Physics: Conference Series, 2009, 154, 012040.	0.4	30
28	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
29	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
30	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
31	Recent progress of an atomic fountain frequency standard NMIJ-F1 (2006 – 2007). , 2008, , .		2
32	Dark resonance in bichromatic linearly polarized optical field on Cs D<inf>1</inf> line. , 2008, , .		0
33	The Japanese space gravitational wave antenna; DECIGO. Journal of Physics: Conference Series, 2008, 120, 032004.	0.4	34
34	DECIGO pathfinder. Journal of Physics: Conference Series, 2008, 120, 032005.	0.4	5
35	Mode-locked laser-type optical atomic clock with an optically pumped Cs gas cell. Optics Letters, 2007, 32, 1241.	3.3	11
36	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

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37	Broadly tunable mW level UV light generated by intracavity SFG in a compact high-Q PPMgSLT OPO. , 2007, , .		0
38	Atomic and molecular spectroscopy with a continuous-wave, doubly resonant, monolithic optical parametric oscillator. Optics Communications, 2007, 269, 188-193.	2.1	5
39	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
40	Doppler-free spectroscopy using a continuous-wave optical frequency synthesizer. Applied Optics, 2006, 45, 4910.	2.1	23
41	Short Term Frequency Stability Tests of Two Cryogenic Sapphire Oscillators. Japanese Journal of Applied Physics, 2006, 45, 9234-9237.	1.5	19
42	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
43	Optical Frequency Measurement Using Chirped-Mirror-Dispersion-Controlled Mode-Locked Ti:Al2O3Laser. Japanese Journal of Applied Physics, 2006, 45, 5051-5062.	1.5	6
44	The Japanese space gravitational wave antennaâ€”DECIGO. Classical and Quantum Gravity, 2006, 23, S125-S131.	4.0	388
45	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
46	Numerical Simulation of Distributed Cavity Phase Shift in Atomic Fountain Frequency Standard. Japanese Journal of Applied Physics, 2005, 44, 1468-1475.	1.5	7
47	Ultrastable cesium atomic clock with a 91926-GHz regeneratively mode-locked fiber laser. Optics Letters, 2005, 30, 1512.	3.3	3
48	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
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	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
51	Characteristics of continuous-wave double-resonant optical parametric oscillators as spectroscopic tools. , 2001, , .		1
52	Continuous-wave RbTiOAsO4Optical Parametric Oscillator in Optical Frequency Interval Divider Scheme. Japanese Journal of Applied Physics, 2001, 40, 134-136.	1.5	1
53	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
54	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

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55	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
56	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
57	Characteristics of a cw monolithic optical parametric oscillator. Applied Physics B: Lasers and Optics, 1998, 66, 719-725.	2.2	19
58	Frequency measurement of accurate sidebands of an optical frequency comb generator. Optics Communications, 1997, 135, 223-226.	2.1	7
59	Accuracy of an optical parametric oscillator as an optical frequency divider. Optics Communications, 1996, 127, 69-72.	2.1	15
60	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
61	Long Term Operation of a CW Doubly Resonant Optical Parametric Oscillator. Japanese Journal of Applied Physics, 1996, 35, 2690-2691.	1.5	5
62	<title>Low-threshold and stable optical parametric oscillator for optical frequency division</title>. , 1995, 2379, 192.		3
63	Cesium Atomic Fountain with Two-Dimensional Moving Molasses. Japanese Journal of Applied Physics, 1995, 34, L1170-L1173.	1.5	14
64	Laser cooling and trapping experiments for cesium atoms in NRLM. , 1993, , .		0
65	Light shifts in an optically pumped Cs beam frequency standard. IEEE Transactions on Instrumentation and Measurement, 1991, 40, 1003-1007.	4.7	22
66	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
67	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
68	Characteristics of an optically pumped Cs frequency standard at the NRLM. IEEE Transactions on Instrumentation and Measurement, 1989, 38, 533-536.	4.7	16
69	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
70	Monolithic cw optical parametric oscillators for optical frequency measurement. , 0, , .		0