Noriaki Ohmae

List of Publications by Year
in descending order

37 papers	1,179 citations	623734 14 h-index	526287 27 g-index
38 all docs	38 docs citations	38 times ranked	1734 citing authors

#	Article	IF	Citations
1	Three-stage laser cooling of Sr atoms using the 5s5pP23 metastable state below Doppler temperatures. Physical Review A, 2021, 103, .	2.5	9
2	Transportable Strontium Optical Lattice Clocks Operated Outside Laboratory at the Level of 10^{â^'18} Uncertainty. Advanced Quantum Technologies, 2021, 4, 2100015.	3.9	32
3	Test of general relativity by a pair of transportable optical lattice clocks. Nature Photonics, 2020, 14, 411-415.	31.4	244
4	An arm length stabilization system for KAGRA and future gravitational-wave detectors. Classical and Quantum Gravity, 2020, 37, 035004.	4.0	10
5	Optical frequency distribution using laser repeater stations with planar lightwave circuits. Optics Express, 2020, 28, 9186.	3.4	25
6	Direct measurement of the frequency ratio for Hg and Yb optical lattice clocks and closure of the Hg/Yb/Sr loop. Optics Express, 2020, 28, 15112.	3.4	23
7	Transportable Optical Lattice Clocks to Test Gravitational Redshift. , 2020, , .		0
8	Frequency measurement on the 5s5pÂP23â^'5s4dÂD33 transition of Sr88 atoms using the photon-momentum-transfer technique. Physical Review A, 2019, 100, .	2.5	4
9	626-nm single-frequency semiconductor laser system operated near room temperature for mW-level second-harmonic generation at 313 nm. Review of Scientific Instruments, 2019, 90, 063201.	1.3	2
10	Highâ€stability optical frequency transfer with allâ€fiber architecture for optical lattice clocks. Electronics and Communications in Japan, 2019, 102, 43-48.	0.5	4
11	Direct Wavelength Measurement of the Visible M1 Transition in Ba⁷⁺with a Novel Calibration Method. Plasma and Fusion Research, 2019, 14, 1201021-1201021.	0.7	4
12	Direct determination of the energy of the first excited fine-structure level in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>Ba</mml:mi></mml:mrow><mml:mrow><m Physical Review A, 2019, 100, .	2.5	16
13	High-stability Optical Frequency Transfer with All-Fiber Architecture for Optical Lattice Clocks. IEEJ Transactions on Electronics, Information and Systems, 2019, 139, 126-130.	0.2	0
14	Construction of KAGRA: an underground gravitational-wave observatory. Progress of Theoretical and Experimental Physics, 2018, 2018, .	6.6	73
15	Visible spectra of highly charged holmium ions observed with a compact electron beam ion trap. Nuclear Instruments & Methods in Physics Research B, 2017, 408, 118-121.	1.4	13
16	All-polarization-maintaining, single-port Er:fiber comb for high-stability comparison of optical lattice clocks. Applied Physics Express, 2017, 10, 062503.	2.4	29
17	Ultra-low noise robust Er fiber-based optical frequency comb with a graphene modulator. , 2017, , .		0
18	Higher order test of Lorentz invariance with an optical ring cavity. , 2017, , .		0

#	Article	IF	Citations
19	Geopotential measurements with synchronously linked optical lattice clocks. Nature Photonics, 2016, 10, 662-666.	31.4	176
20	Continuous-wave, single-frequency 229â€‰â€‰nm laser source for laser cooling of cadmium atoms. Optics Letters, 2016, 41, 705.	3.3	30
21	Frequency ratio of Yb and Sr clocks with 5â€‰Ã—â€‰10â^’17 uncertainty at 150â€…seconds averaging time. Nature Photonics, 2016, 10, 258-261.	31.4	170
22	Frequency Ratio of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Hg</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>199</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Sr</mml:mi></mml:mrow><mml:mprescripts	7.8	74
23	Frequency comparisons of Sr, Yb, and Hg based optical lattice clocks and their applications. , 2015, , .		0
24	Frequency ratios of Sr, Yb, and Hg based optical lattice clocks and their applications. Comptes Rendus Physique, 2015, 16, 489-498.	0.9	67
25	New Limit on Lorentz Violation Using a Double-Pass Optical Ring Cavity. Physical Review Letters, 2013, 110, 200401.	7.8	20
26	Prospects for frequency comparison of Sr and Hg optical lattice clocks toward 10^{−18} uncertainties. , 2012, , .		0
27	Thermal performance in high power SHG characterized by phase-matched calorimetry. Optics Express, 2011, 19, 22588.	3.4	49
28	High-efficiency electro-optic amplitude modulation with delayed coherent addition. Optics Letters, 2011, 36, 238.	3.3	4
29	Determination of wavefront aberrations using a Fabryâ€"Perot cavity. Optics Communications, 2011, 284, 3197-3201.	2.1	7
30	Characteristics of Laser System Used in Large-Scale Cryogenic Gravitational Wave Telescope. Journal of the Vacuum Society of Japan, 2011, 54, 604-609.	0.3	0
31	Thermal Management in High Power CW SHG Characterized by PMC. , 2011, , .		0
32	Wideband and high-gain frequency stabilization of a 100-W injection-locked Nd:YAG laser for second-generation gravitational wave detectors. Review of Scientific Instruments, 2010, 81, 073105.	1.3	6
33	40-W, CW, Cavity-Enhanced Second-Harmonic Generation with kHz Linewidth of an Injection-Locked Nd:YAG Laser. , 2010, , .		0
34	Thermal effect depends on focus position in CW single-pass high power SHG in PPMG:SLT. , 2009, , .		0
35	Thermal effects in high-power CW second harmonic generation in Mg-doped stoichiometric lithium tantalate. Optics Express, 2008, 16, 11294.	3.4	75
36	Development of Electrooptic Modulator for Advanced Ground-Based Gravitational Wave Telescopes Using Stoichiometric MgO-Doped LiNbO₃Crystals. Applied Physics Express, 2008, 1, 012005.	2.4	7

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37	Wideband Frequency Stabilization of a 100-W Injection-Locked Nd:YAG Laser Using an External Electrooptic Modulator. Applied Physics Express, 0, 1, 092601.	2.4	4