Kazumoto Hosaka

List of Publications by Year
in descending order

51 papers	1,070 citations	471509 17 h-index	434195 31 g-index
52 all docs	52 docs citations	52 times ranked	641 citing authors

#	Article	IF	Citations
1	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
2	Ultra-broadband dual-comb spectroscopy across 1.0â€“1.9 Âµm. Applied Physics Express, 2015, 8, 082402.	2.4	134
3	One-Dimensional Optical Lattice Clock with a Fermionic¹⁷¹Yb Isotope. Applied Physics Express, 0, 2, 072501.	2.4	91
4	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
5	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
6	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
7	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
8	Doppler-free spectroscopy of molecular iodine using a frequency-stable light source at 578 nm. Optics Express, 2009, 17, 1652.	3.4	43
9	A Fabryâ€“PÃ©rot Etalon with an Ultralow Expansion Ceramic Spacer. Japanese Journal of Applied Physics, 2013, 52, 032402.	1.5	43
10	Frequency ratio measurement of ^171Yb and ^87Sr optical lattice clocks. Optics Express, 2014, 22, 7898.	3.4	40
11	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
12	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
13	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
14	Compact iodine-stabilized laser operating at 531 nm with stability at the 10^âˆ’12 level and using a coin-sized laser module. Optics Express, 2015, 23, 20749.	3.4	24
15	Demonstration of the nearly continuous operation of an¹⁷¹Yb optical lattice clock for half a year. Metrologia, 2020, 57, 065021.	1.2	24
16	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
17	Second harmonic generation at 399 nm resonant on the ^1S_0âˆ’^1P1 transition of ytterbium using a periodically poled LiNbO_3 waveguide. Optics Express, 2016, 24, 12142.	3.4	21
18	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

#	Article	IF	Citations
19	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
20	Development of 8-branch Er:fiber frequency comb for Sr and Yb optical lattice clocks. Optics Express, 2019, 27, 6404.	3.4	14
21	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
22	A relocking scheme for optical phase locking using a digital circuit with an electrical delay line. Review of Scientific Instruments, 2019, 90, 103002.	1.3	9
23	Evaluation of Fiber Noise Induced in Ultrastable Environments. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2246-2252.	4.7	9
24	Electron transfer and decay processes of highly charged iodine ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 403-415.	1.5	8
25	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
26	Improved frequency ratio measurement with ⁸⁷Sr and ¹⁷¹Yb optical lattice clocks at NMIJ. Metrologia, 2021, 58, 015008.	1.2	8
27	Present status of the development of an Yb optical lattice clock at NMIJ/AIST (National Metrology) Tj ETQq1 1 0.784314 rgBT /Overloc SPIE, 2007, , .	0.8	7
28	All-optically stabilized frequency comb. Applied Physics Express, 2015, 8, 122701.	2.4	6
29	Dependence of radiative stabilization on the projectile charge state after double-electron-transfer processes in slow, highly charged ion-molecule collisions. Physical Review A, 1997, 56, 4692-4699.	2.5	4
30	Novel phase-locking schemes for the carrier envelope offset frequency of an optical frequency comb. Applied Physics Express, 2015, 8, 112402.	2.4	4
31	Slow Secondary Electron Emission Yields at Near-Zero Kinetic Energy, Highly Charged Ion Impact. Japanese Journal of Applied Physics, 1999, 38, 2120-2121.	1.5	1
32	All-fiber-based frequency comb with an intra-cavity waveguide electro-optic modulator. , 2010, , .		1
33	The CCL-K11 ongoing key comparison: final report for the year 2010. Metrologia, 2011, 48, 04001-04001.	1.2	1
34	Frequency-Control Characteristics of an Erbium-Based Mode-Locked Fiber Laser with an Optically Pumped Ytterbium Fiber. , 2015, , .		1
35	An iodine-stabilized Yb:YAG laser. , 2008, , .		0
36	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

#	Article	IF	Citations
37	Yb Optical Lattice Clock at NMIJ, AIST. , 2010, , .		0
38	Toward the Yb/Sr frequency ratio measurement: Development of the Sr optical lattice clock at NMIJ, AIST. , 2010, , .		0
39	Fiber-based frequency combs with millihertz-level relative linewidths for optical lattice clocks. , 2010, , .		0
40	Current status of the¹⁷¹Yb optical lattice clock at NMIJ, AIST. Proceedings of SPIE, 2011, , .	0.8	0
41	Precision measurement with optical frequency combs and clocks. , 2013, , .		0
42	Towards a new clock laser system using a ceramic cavity and laser linewidth transfer technique. , 2013, , .		0
43	Optical frequency measurement comparison using fiber laser combs between CMS and NMIJ. , 2013, , .		0
44	Evaluation of an ultra-stable laser system based on a linewidth transfer method for optical clocks. , 2014, , .		0
45	Sub-Doppler laser spectroscopy of molecular iodine at 578 nm. , 2016, , .		0
46	Development of an 8-branch optical frequency comb for laser frequency stabilization. , 2017, , .		0
47	Development of an operational Yb optical lattice clock towards contribution to the International Atomic Time. , 2020, , .		0
48	A low-noise, octave-spanning optical frequency comb generated by a mode-locked fiber laser with an intracavity electro-optic modulator. , 2009, , .		0
49	Ultra-Broadband Near-Infrared Dual-Comb Spectroscopy. , 2014, , .		0
50	A compact iodine-stabilized diode laser at 531 nm. , 2015, , .		0
51	Sr optical lattice clock assisted by optical frequency combs for contribution to International Atomic Time. , 2020, , .		0