

Masao Takamoto

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

3,213
citations

471061

17
h-index

752256

20
g-index

33
all docs

33
docs citations

33
times ranked

1596
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | An optical lattice clock. Nature, 2005, 435, 321-324. | 13.7 | 688 |
| 2 | Cryogenic optical lattice clocks. Nature Photonics, 2015, 9, 185-189. | 15.6 | 496 |
| 3 | Ultrastable Optical Clock with Neutral Atoms in an Engineered Light Shift Trap. Physical Review Letters, 2003, 91, 173005. | 2.9 | 468 |
| 4 | Test of general relativity by a pair of transportable optical lattice clocks. Nature Photonics, 2020, 14, 411-415. | 15.6 | 244 |
| 5 | Geopotential measurements with synchronously linked optical lattice clocks. Nature Photonics, 2016, 10, 662-666. | 15.6 | 176 |
| 6 | Frequency ratio of Yb and Sr clocks with 5×10^{-17} uncertainty at 150 seconds averaging time. Nature Photonics, 2016, 10, 258-261. | 15.6 | 170 |
| 7 | Spectroscopy of the $^1S_0 \rightarrow ^3P_0$ Clock Transition of Sr ⁸⁷ in an Optical Lattice. Physical Review Letters, 2003, 91, 223001. | 2.9 | 149 |
| 8 | Trapping of Neutral Mercury Atoms and Prospects for Optical Lattice Clocks. Physical Review Letters, 2008, 100, 053001. | 2.9 | 146 |
| 9 | Frequency comparison of optical lattice clocks beyond the Dick limit. Nature Photonics, 2011, 5, 288-292. | 15.6 | 121 |
| 10 | Optical lattice clocks with non-interacting bosons and fermions. Nature Physics, 2008, 4, 954-959. | 6.5 | 118 |
| 11 | Improved Frequency Measurement of a One-Dimensional Optical Lattice Clock with a Spin-Polarized Fermionic ⁸⁷ Sr Isotope. Journal of the Physical Society of Japan, 2006, 75, 104302. | 0.7 | 110 |
| 12 | Frequency Ratio of ^{199}Hg and ^{87}Sr . Physical Review Letters, 2018, 121, 263202. | 2.9 | 74 |
| 13 | Operational Magic Intensity for Sr Optical Lattice Clocks. Physical Review Letters, 2018, 121, 263202. | 2.9 | 65 |
| 14 | Photoassociation spectroscopy of Sr ⁸⁸ : Reconstruction of the wave function near the last node. Physical Review A, 2006, 73, . | 1.0 | 59 |
| 15 | Prospects for Optical Clocks with a Blue-Detuned Lattice. Physical Review Letters, 2009, 102, 063002. | 2.9 | 43 |
| 16 | Transportable Strontium Optical Lattice Clocks Operated Outside Laboratory at the Level of 10^{-18} Uncertainty. Advanced Quantum Technologies, 2021, 4, 2100015. | 1.8 | 32 |
| 17 | Optical frequency distribution using laser repeater stations with planar lightwave circuits. Optics Express, 2020, 28, 9186. | 1.7 | 25 |
| 18 | A perspective on the future of transportable optical lattice clocks. Applied Physics Letters, 2022, 120, . | 1.5 | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Three-stage laser cooling of Sr atoms using the $5s5p^2$ metastable state below Doppler temperatures. Physical Review A, 2021, 103, . | 1.0 | 9 |
| 20 | Frequency measurement on the $5s5p^2 \rightarrow 5s4d^2$ transition of Sr88 atoms using the photon-momentum-transfer technique. Physical Review A, 2019, 100, . | 1.0 | 4 |
| 21 | Optical lattice clock. , 2005, , . | | 3 |
| 22 | OPTICAL LATTICE CLOCK: PRECISION SPECTROSCOPY OF NEUTRAL ATOMS IN TIGHT CONFINEMENT. , 2004, , . | | 0 |
| 23 | Optical lattice clock. , 0, , . | | 0 |
| 24 | Optical Lattice Clock: Precision Frequency Measurement. , 2006, , . | | 0 |
| 25 | Frequency Comparison between Optical Lattice Clocks. , 2007, , . | | 0 |
| 26 | Frequency Measurement of an Optical Lattice Clock. LEOS Summer Topical Meeting, 2007, , . | 0.0 | 0 |
| 27 | OPTICAL LATTICE CLOCKS WITH SINGLE OCCUPANCY BOSONS AND SPIN-POLARIZED FERMIONS TOWARD 10-17 ACCURACY. , 2010, , . | | 0 |
| 28 | Optical Lattice Clocks for Precision Frequency Metrology. The Review of Laser Engineering, 2011, 39, 825-830. | 0.0 | 0 |
| 29 | Synchronous frequency comparison of optical lattice clocks to approach the quantum limit. , 2011, , . | | 0 |
| 30 | SIMULATE ION TRAPS WITH NEUTRAL ATOMS: STARK ATOM CHIP AND OPTICAL LATTICE CLOCK. , 2005, , . | | 0 |
| 31 | AN OPTICAL LATTICE CLOCK: ULTRASTABLE ATOMIC CLOCK WITH ENGINEERED PERTURBATION. , 2006, , . | | 0 |
| 32 | Optical Lattice Clocks with Non-Interacting Bosons and Fermions. The Review of Laser Engineering, 2008, 36, 1004-1007. | 0.0 | 0 |
| 33 | OPTICAL LATTICE CLOCK: SEVEN YEARS OF PROGRESS AND NEXT STEPS. , 2009, , . | | 0 |