

Rekishu Yamazaki

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

3,182
citations

471509

17
h-index

395702

33
g-index

36
all docs

36
docs citations

36
times ranked

2326
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybridizing Ferromagnetic Magnons and Microwave Photons in the Quantum Limit. Physical Review Letters, 2014, 113, 083603.	7.8	658
2	Coherent coupling between a ferromagnetic magnon and a superconducting qubit. Science, 2015, 349, 405-408.	12.6	542
3	Cavity Optomagnonics with Spin-Orbit Coupled Photons. Physical Review Letters, 2016, 116, 223601.	7.8	296
4	An SU(6) Mott insulator of an atomic Fermi gas realized by large-spin Pomeranchuk cooling. Nature Physics, 2012, 8, 825-830.	16.7	278
5	Realization of a $\text{SU}(6)$ Mott insulator of an atomic Fermi gas realized by large-spin Pomeranchuk cooling. Nature Physics, 2012, 8, 825-830.	7.8	249
6	Resolving quanta of collective spin excitations in a millimeter-sized ferromagnet. Science Advances, 2017, 3, e1603150.	10.3	225
7	Submicron Spatial Modulation of an Interatomic Interaction in a Bose-Einstein Condensate. Physical Review Letters, 2010, 105, 050405.	7.8	173
8	Quantum magnonics: The magnon meets the superconducting qubit. Comptes Rendus Physique, 2016, 17, 729-739.	0.9	122
9	Brillouin Light Scattering by Magnetic Quasivortices in Cavity Optomagnonics. Physical Review Letters, 2018, 120, 133602.	7.8	109
10	Interaction and filling-induced quantum phases of dual Mott insulators of bosons and fermions. Nature Physics, 2011, 7, 642-648.	16.7	105
11	Qubit-Assisted Transduction for a Detection of Surface Acoustic Waves near the Quantum Limit. Physical Review Letters, 2017, 119, 180505.	7.8	72
12	Bose-Einstein condensate in gases of rare atomic species. Physical Review A, 2011, 84, .	2.5	69
13	Ground state cooling of a quantum electromechanical system with a silicon nitride membrane in a 3D loop-gap cavity. New Journal of Physics, 2016, 18, 103036.	2.9	36
14	Helicity-Changing Brillouin Light Scattering by Magnons in a Ferromagnetic Crystal. Physical Review Letters, 2019, 123, 207401.	7.8	29
15	Observation of a p -wave optical Feshbach resonance. Physical Review A, 2013, 87, .	2.5	27
16	Observation of the Phase Lag in the Asymmetric Photoelectron Angular Distributions of Atomic Barium. Physical Review Letters, 2007, 98, 053001.	7.8	25
17	Electro-mechano-optical detection of nuclear magnetic resonance. Optica, 2018, 5, 152.	9.3	22
18	Single-photon quantum regime of artificial radiation pressure on a surface acoustic wave resonator. Nature Communications, 2020, 11, 1183.	12.8	16

#	ARTICLE	IF	CITATIONS
19	Quantum gate using qubit states separated by terahertz. Physical Review A, 2010, 81, .	2.5	15
20	Strong variation of the phase lag in the vicinity of autoionizing resonances. Physical Review A, 2007, 76, .	2.5	14
21	Robust generation of superposition states. Physical Review A, 2008, 78, .	2.5	14
22	Photoassociative production of ultracold heteronuclear ytterbium molecules. Physical Review A, 2011, 84, .	2.5	14
23	Observation of long-lived van der Waals molecules in an optical lattice. Physical Review A, 2012, 86, .	2.5	12
24	Cavity Enhancement of Anti-Stokes Scattering via Optomechanical Coupling with Surface Acoustic Waves. Physical Review Applied, 2018, 10, .	3.8	12
25	Stimulated Raman spectroscopy and the determination of the D-fine-structure level separation in $^{40}\text{Ca}^+$. Physical Review A, 2008, 77, .	2.5	11
26	Phase-locked laser system for a metastable states qubit in $^{40}\text{Ca}^+$. Optics Letters, 2007, 32, 2085.	3.3	8
27	One- and two-photon ionization cross sections of the laser-excited $6s6p\ ^1P_1$ state of barium. Physical Review A, 2009, 80, .	2.5	8
28	Radio-frequency-to-optical conversion using acoustic and optical whispering-gallery modes. Physical Review A, 2020, 101, .	2.5	7
29	Optimum parameters for sideband cooling of a $^{40}\text{Ca}^+$ ion. Applied Physics B: Lasers and Optics, 2008, 93, 381-388.	2.2	4
30	Measurement and compensation of optical Stark shifts for manipulating the terahertz-separated qubit $C \frac{d}{dt} \left(\frac{d}{dt} \right)^4$ Physical Review A, 2009, 80, .	2.5	4
31	Superconducting acousto-optic phase modulator. Optics Express, 2021, 29, 14151.	3.4	3
32	Product-state control in barium. Physical Review A, 2006, 73, .	2.5	2
33	Quantum Simulation Using Ultracold Two-electron Atoms in an Optical Lattice. Journal of the Korean Physical Society, 2011, 59, 2936-2940.	0.7	1
34	ULTRACOLD YTTERBIUM ATOMS IN OPTICAL LATTICES. , 2010, , .		0
35	Phase-locked light sources with low-phase noise for manipulating terahertz-separated metastable states in $^{40}\text{Ca}^+$. Applied Physics B: Lasers and Optics, 2010, 101, 547-552.	2.2	0
36	QUANTUM SIMULATION USING ULTRACOLD ATOMS IN OPTICAL LATTICES. , 2012, , .		0