

Takashi Mukaiyama

List of Publications by Year in descending order

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37
papers

1,809
citations

304743

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377865

34
g-index

37
all docs

37
docs citations

37
times ranked

1275
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of ion displacement via RF power variation for excess micromotion compensation. Journal of Applied Physics, 2021, 129, 124302.	2.5	6
2	Three-Dimensional Matter-Wave Interferometry of a Trapped Single Ion. Physical Review Letters, 2021, 126, 153604.	7.8	6
3	Generation of a single-ion large oscillator. Physical Review A, 2021, 104, .	2.5	3
4	Breaking rotational symmetry in a trapped-ion quantum tunneling rotor. Physical Review A, 2020, 101, .	2.5	1
5	Quantum Walks of a Phonon in Trapped Ions. Physical Review Letters, 2020, 124, 200501.	7.8	34
6	Quantitative analysis of p -wave three-body losses via a cascade process. Physical Review A, 2019, 99, .	2.5	19
7	Quantum differential ghost microscopy. Physical Review A, 2019, 100, .	2.5	9
8	Scaling Law for Three-Body Collisions of Identical Fermions with p -Wave Interactions. Physical Review Letters, 2018, 120, 133401.	7.8	27
9	Cooling Dynamics of a Single Trapped Ion via Elastic Collisions with Small-Mass Atoms. Physical Review Letters, 2018, 120, 043401.	7.8	25
10	Unitarity-limited behavior of three-body collisions in a p -wave interacting Fermi gas. Physical Review A, 2018, 98, .	2.5	26
11	Quantum differential ghost microscopy in ultracold Li atoms and $Ca^{2.5}$ ions. Physical Review A, 2018, 98, .	2.5	37
12	Two-body relaxation in a Fermi gas at a p -wave Feshbach resonance. Physical Review A, 2017, 96, .	2.5	22
13	Creation of p -wave Feshbach molecules in selected angular momentum states using an optical lattice. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 204001.	1.5	18
14	Charge-exchange collisions between ultracold fermionic lithium atoms and calcium ions. Physical Review A, 2015, 91, .	2.5	39
15	A self-injected, diode-pumped, solid-state ring laser for laser cooling of Li atoms. Review of Scientific Instruments, 2015, 86, 043113.	1.3	4
16	Experimental determination of p -wave scattering parameters in ultracold Li atoms. Physical Review A, 2013, 88, .	2.5	50
17	Observation of elastic collisions between lithium atoms and calcium ions. Physical Review A, 2013, 87, .	2.5	42
18	Note: Auto-relock system for a bow-tie cavity for second harmonic generation. Review of Scientific Instruments, 2013, 84, 026111.	1.3	5

#	ARTICLE	IF	CITATIONS
19	Measurement of an Efimov Trimer Binding Energy in a Three-Component Mixture of Li . Physical Review Letters, 2011, 106, 143201.	7.8	101
20	Nonuniversal Efimov Atom-Dimer Resonances in a Three-Component Mixture of Li . Physical Review Letters, 2010, 105, 023201.	7.8	93
21	Measurement of Universal Thermodynamic Functions for a Unitary Fermi Gas. Science, 2010, 327, 442-445.	12.6	172
22	Critical Temperature and Condensate Fraction of a Fermion Pair Condensate. Physical Review Letters, 2008, 101, 180406.	7.8	41
23	Publisher's Note: Collisional Properties of p-Wave Feshbach Molecules [Phys. Rev. Lett. 101, 100401 (2008)]. Physical Review Letters, 2008, 101, .	7.8	5
24	Collisional Properties of p-Wave Feshbach Molecules. Physical Review Letters, 2008, 101, 100401.	7.8	91
25	Reflection-type pulsed terahertz imaging with a phase-retrieval algorithm. Applied Physics Letters, 2006, 88, 041114.	3.3	15
26	Spectroscopic topography using terahertz pulses with a phase-retrieval algorithm. , 2006, , .		0
27	Sodium Bose-Einstein condensates in an optical lattice. Physical Review A, 2005, 72, .	2.5	47
28	Coherent Molecular Optics Using Ultracold Sodium Dimers. Physical Review Letters, 2005, 94, 040405.	7.8	26
29	Heavy Photon States in Photonic Chains of Resonantly Coupled Cavities with Supermonodispersive Microspheres. Physical Review Letters, 2005, 94, 203905.	7.8	108
30	Reflection-type THz imaging with a phase-retrieval algorithm. , 2005, , .		0
31	Dissociation and Decay of Ultracold Sodium Molecules. Physical Review Letters, 2004, 92, 180402.	7.8	115
32	Photonic molecule lasing. Optics Letters, 2003, 28, 2437.	3.3	78
33	Recoil-Limited Laser Cooling of $\text{Sr}87$ Atoms near the Fermi Temperature. Physical Review Letters, 2003, 90, 113002.	7.8	115
34	Formation of Quantum-Degenerate Sodium Molecules. Physical Review Letters, 2003, 91, 210402.	7.8	215
35	Time-Resolved Emission from Self-Assembled Single Quantum Dots Using Scanning Near-Field Optical Microscope. Japanese Journal of Applied Physics, 1999, 38, L1460-L1462.	1.5	16
36	Tight-Binding Photonic Molecule Modes of Resonant Bispheres. Physical Review Letters, 1999, 82, 4623-4626.	7.8	198

#	ARTICLE	IF	CITATIONS
37	Resonant Emission Mode Identification by Angle Tuned Prism Coupling in Er ³⁺ Doped Tellurite Glass Microsphere. , 0, , .		0