

Takashi Mukaiyama

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,809
citations

304743

22
h-index

377865

34
g-index

37
all docs

37
docs citations

37
times ranked

1275
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of Quantum-Degenerate Sodium Molecules. Physical Review Letters, 2003, 91, 210402.	7.8	215
2	Tight-Binding Photonic Molecule Modes of Resonant Bispheres. Physical Review Letters, 1999, 82, 4623-4626.	7.8	198
3	Measurement of Universal Thermodynamic Functions for a Unitary Fermi Gas. Science, 2010, 327, 442-445.	12.6	172
4	Recoil-Limited Laser Cooling of Sr87 Atoms near the Fermi Temperature. Physical Review Letters, 2003, 90, 113002.	7.8	115
5	Dissociation and Decay of Ultracold Sodium Molecules. Physical Review Letters, 2004, 92, 180402.	7.8	115
6	Heavy Photon States in Photonic Chains of Resonantly Coupled Cavities with Supermonodisperse Microspheres. Physical Review Letters, 2005, 94, 203905.	7.8	108
7	Measurement of an Efimov Trimer Binding Energy in a Three-Component Mixture of ^6Li atoms. Physical Review Letters, 2011, 106, 143201.	7.8	101
8	Nonuniversal Efimov Atom-Dimer Resonances in a Three-Component Mixture of ^6Li atoms. Physical Review Letters, 2010, 105, 023201.	7.8	93
9	Collisional Properties of p -Wave Feshbach Molecules. Physical Review Letters, 2008, 101, 100401.	7.8	91
10	Photonic molecule lasing. Optics Letters, 2003, 28, 2437.	3.3	78
11	Experimental determination of p -wave scattering parameters in ultracold ^6Li atoms. Physical Review A, 2013, 88, .	2.5	50
12	Sodium Bose-Einstein condensates in an optical lattice. Physical Review A, 2005, 72, .	2.5	47
13	Observation of elastic collisions between lithium atoms and calcium ions. Physical Review A, 2013, 87, .	2.5	42
14	Critical Temperature and Condensate Fraction of a Fermion Pair Condensate. Physical Review Letters, 2008, 101, 180406.	7.8	41
15	Charge-exchange collisions between ultracold fermionic lithium atoms and calcium ions. Physical Review A, 2015, 91, .	2.5	39
16	Characterization of charge-exchange collisions between ultracold ^6Li atoms and ^{40}Ca ions. Physical Review A, 2015, 91, .	2.5	37
17	Quantum Walks of a Phonon in Trapped Ions. Physical Review Letters, 2020, 124, 200501.	7.8	34
18	Scaling Law for Three-Body Collisions of Identical Fermions with p -Wave Interactions. Physical Review Letters, 2018, 120, 133401.	7.8	27

#	ARTICLE	IF	CITATIONS
19	Coherent Molecular Optics Using Ultracold Sodium Dimers. <i>Physical Review Letters</i> , 2005, 94, 040405.	7.8	26
20	Unitarity-limited behavior of three-body collisions in a p -wave interacting Fermi gas. <i>Physical Review A</i> , 2018, 98, .	2.5	26
21	Cooling Dynamics of a Single Trapped Ion via Elastic Collisions with Small-Mass Atoms. <i>Physical Review Letters</i> , 2018, 120, 043401.	7.8	25
22	Two-body relaxation in a Fermi gas at a p -wave Feshbach resonance. <i>Physical Review A</i> , 2017, 96, .	2.5	22
23	Quantitative analysis of p -wave three-body losses via a cascade process. <i>Physical Review A</i> , 2019, 99, .	2.5	19
24	Creation of p -wave Feshbach molecules in selected angular momentum states using an optical lattice. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 204001.	1.5	18
25	Time-Resolved Emission from Self-Assembled Single Quantum Dots Using Scanning Near-Field Optical Microscope. <i>Japanese Journal of Applied Physics</i> , 1999, 38, L1460-L1462.	1.5	16
26	Reflection-type pulsed terahertz imaging with a phase-retrieval algorithm. <i>Applied Physics Letters</i> , 2006, 88, 041114.	3.3	15
27	Quantum differential ghost microscopy. <i>Physical Review A</i> , 2019, 100, .	2.5	9
28	Measurement of ion displacement via RF power variation for excess micromotion compensation. <i>Journal of Applied Physics</i> , 2021, 129, 124302.	2.5	6
29	Three-Dimensional Matter-Wave Interferometry of a Trapped Single Ion. <i>Physical Review Letters</i> , 2021, 126, 153604.	7.8	6
30	Publisher's Note: Collisional Properties of p -Wave Feshbach Molecules [<i>Phys. Rev. Lett.</i> 101, 100401 (2008)]. <i>Physical Review Letters</i> , 2008, 101, .	7.8	5
31	Note: Auto-relock system for a bow-tie cavity for second harmonic generation. <i>Review of Scientific Instruments</i> , 2013, 84, 026111.	1.3	5
32	A self-injected, diode-pumped, solid-state ring laser for laser cooling of Li atoms. <i>Review of Scientific Instruments</i> , 2015, 86, 043113.	1.3	4
33	Generation of a single-ion large oscillator. <i>Physical Review A</i> , 2021, 104, .	2.5	3
34	Breaking rotational symmetry in a trapped-ion quantum tunneling rotor. <i>Physical Review A</i> , 2020, 101, .	2.5	1
35	Resonant Emission Mode Identification by Angle Tuned Prism Coupling in Er^{3+} -Doped Tellurite Glass Microsphere. , 0, , .		0
36	Reflection-type THz imaging with a phase-retrieval algorithm. , 2005, , .		0

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37	Spectroscopic topography using terahertz pulses with a phase-retrieval algorithm. , 2006, , .		0