

Jacob P Covey

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/50199/publications.pdf>

Version: 2024-02-01

21
papers

2,260
citations

567281

15
h-index

752698

20
g-index

23
all docs

23
docs citations

23
times ranked

2015
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of dipolar spin-exchange interactions with lattice-confined polar molecules. Nature, 2013, 501, 521-525.	27.8	671
2	High-fidelity entanglement and detection of alkaline-earth Rydberg atoms. Nature Physics, 2020, 16, 857-861.	16.7	222
3	A degenerate Fermi gas of polar molecules. Science, 2019, 363, 853-856.	12.6	198
4	New frontiers for quantum gases of polar molecules. Nature Physics, 2017, 13, 13-20.	16.7	167
5	Creation of a low-entropy quantum gas of polar molecules in an optical lattice. Science, 2015, 350, 659-662.	12.6	164
6	Many-Body Dynamics of Dipolar Molecules in an Optical Lattice. Physical Review Letters, 2014, 113, 195302.	7.8	162
7	Perspectives on quantum transduction. Quantum Science and Technology, 2020, 5, 020501.	5.8	155
8	Alkaline-Earth Atoms in Optical Tweezers. Physical Review X, 2018, 8, .	8.9	125
9	Robust Encoding of a Qubit in a Molecule. Physical Review X, 2020, 10, .	8.9	78
10	2000-Times Repeated Imaging of Strontium Atoms in Clock-Magic Tweezer Arrays. Physical Review Letters, 2019, 122, 173201.	7.8	76
11	An Atomic-Array Optical Clock with Single-Atom Readout. Physical Review X, 2019, 9, .	8.9	63
12	doublon dynamics and polar molecule production in an optical lattice. Nature Communications, 2016, 7, 11279.	12.8	42
13	Telecom-Band Quantum Optics with Ytterbium Atoms and Silicon Nanophotonics. Physical Review Applied, 2019, 11, .	3.8	39
14	Microwave-to-optical conversion via four-wave mixing in a cold ytterbium ensemble. Physical Review A, 2019, 100, .	2.5	37
15	An approach to spin-resolved molecular gas microscopy. New Journal of Physics, 2018, 20, 043031.	2.9	18
16	Analyzing the Rydberg-based optical-metastable-ground architecture for Yb nuclear spins. Physical Review A, 2022, 105, .	2.5	15
17	Multiplexed telecommunication-band quantum networking with atom arrays in optical cavities. Physical Review Research, 2021, 3, .	3.6	12
18	Gray molasses cooling of K atoms in optical tweezers. Physical Review Research, 2022, 4, .	3.6	9

#	ARTICLE	IF	CITATIONS
19	Microwave- ^o optical transducer efficiency boost. Nature Photonics, 2022, 16, 262-264.	31.4	0
20	Atom Arrays for Superresolution Imaging. Physics Magazine, 0, 15, .	0.1	0
21	Emerging qubit systems: Guest editorial. Applied Physics Letters, 2022, 120, 190401.	3.3	0