Jacob P Covey

List of Publications by Year in descending order

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

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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	Gray molasses cooling of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">K</mml:mi><mml:mprescripts /><mml:none /><mml:mn>39</mml:mn></mml:mmultiscripts></mml:math> atoms in optical tweezers. Physical Review Research, 2022, 4, .	3.6	9
2	Microwaveâ€“optical transducer efficiency boost. Nature Photonics, 2022, 16, 262-264.	31.4	0
3	Emerging qubit systems: Guest editorial. Applied Physics Letters, 2022, 120, 190401.	3.3	0
4	Analyzing the Rydberg-based optical-metastable-ground architecture for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Yb</mml:mi><mml:mprescripts /><mml:none /><mml:mn>171</mml:mn></mml:mmultiscripts></mml:math> nuclear spins. Physical Review A, 2022, 105, .	2.5	15
5	Multiplexed telecommunication-band quantum networking with atom arrays in optical cavities. Physical Review Research, 2021, 3, .	3.6	12
6	Robust Encoding of a Qubit in a Molecule. Physical Review X, 2020, 10, .	8.9	78
7	Perspectives on quantum transduction. Quantum Science and Technology, 2020, 5, 020501.	5.8	155
8	High-fidelity entanglement and detection of alkaline-earth Rydberg atoms. Nature Physics, 2020, 16, 857-861.	16.7	222
9	Microwave-to-optical conversion via four-wave mixing in a cold ytterbium ensemble. Physical Review A, 2019, 100, .	2.5	37
10	2000-Times Repeated Imaging of Strontium Atoms in Clock-Magic Tweezer Arrays. Physical Review Letters, 2019, 122, 173201.	7.8	76
11	Telecom-Band Quantum Optics with Ytterbium Atoms and Silicon Nanophotonics. Physical Review Applied, 2019, 11, .	3.8	39
12	An Atomic-Array Optical Clock with Single-Atom Readout. Physical Review X, 2019, 9, .	8.9	63
13	A degenerate Fermi gas of polar molecules. Science, 2019, 363, 853-856.	12.6	198
14	Alkaline-Earth Atoms in Optical Tweezers. Physical Review X, 2018, 8, .	8.9	125
15	An approach to spin-resolved molecular gas microscopy. New Journal of Physics, 2018, 20, 043031.	2.9	18
16	New frontiers for quantum gases of polar molecules. Nature Physics, 2017, 13, 13-20.	16.7	167
17	Doublon dynamics and polar molecule production in an optical lattice. Nature Communications, 2016, 7, 11279.	12.8	42
18	Creation of a low-entropy quantum gas of polar molecules in an optical lattice. Science, 2015, 350, 659-662.	12.6	164

#	Article	IF	Citations
19	Many-Body Dynamics of Dipolar Molecules in an Optical Lattice. Physical Review Letters, 2014, 113, 195302.	7.8	162
20	Observation of dipolar spin-exchange interactions with lattice-confined polar molecules. Nature, 2013, 501, 521-525.	27.8	671
21	Atom Arrays for Superresolution Imaging. Physics Magazine, 0, 15, .	0.1	0