

James K Thompson

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,193
citations

516561

16
h-index

677027

22
g-index

25
all docs

25
docs citations

25
times ranked

1030
citing authors

#	ARTICLE	IF	CITATIONS
1	Synchronization of Two Ensembles of Atoms. Physical Review Letters, 2014, 113, 154101.	2.9	150
2	Deterministic Squeezed States with Collective Measurements and Feedback. Physical Review Letters, 2016, 116, 093602.	2.9	148
3	Superradiance on the millihertz linewidth strontium clock transition. Science Advances, 2016, 2, e1601231.	4.7	143
4	Cavity-mediated collective spin-exchange interactions in a strontium superradiant laser. Science, 2018, 361, 259-262.	6.0	124
5	Conditional Spin Squeezing of a Large Ensemble via the Vacuum Rabi Splitting. Physical Review Letters, 2011, 106, 133601.	2.9	118
6	Exploring dynamical phase transitions with cold atoms in an optical cavity. Nature, 2020, 580, 602-607.	13.7	111
7	Frequency Measurements of Superradiance from the Strontium Clock Transition. Physical Review X, 2018, 8, .	2.8	70
8	Robust Spin Squeezing via Photon-Mediated Interactions on an Optical Clock Transition. Physical Review Letters, 2018, 121, 070403.	2.9	45
9	Cavity-aided nondemolition measurements for atom counting and spin squeezing. Physical Review A, 2014, 89, .	1.0	43
10	Phase synchronization inside a superradiant laser. Physical Review A, 2017, 95, .	1.0	33
11	Driven-dissipative quantum dynamics in ultra-long-lived dipoles in an optical cavity. Physical Review A, 2019, 99, .	1.0	31
12	Magnetically Induced Optical Transparency on a Forbidden Transition in Strontium for Cavity-Enhanced Spectroscopy. Physical Review Letters, 2017, 118, 263601.	2.9	29
13	Strong coupling on a forbidden transition in strontium and nondestructive atom counting. Physical Review A, 2016, 93, .	1.0	25
14	Active and passive sensing of collective atomic coherence in a superradiant laser. Physical Review A, 2013, 88, .	1.0	21
15	Cavity-QED Quantum Simulator of Dynamical Phases of a Bardeen-Cooper-Schrieffer Superconductor. Physical Review Letters, 2021, 126, 173601.	2.9	19
16	Continuous Real-Time Tracking of a Quantum Phase Below the Standard Quantum Limit. Physical Review Letters, 2019, 122, 233602.	2.9	16
17	Cavity-QED measurements of the $\langle \text{Sr} \rangle$ millihertz optical clock transition and determination of its natural linewidth. Physical Review Research, 2021, 3, .	1.3	16
18	Superradiant Raman laser magnetometer. Applied Physics Letters, 2012, 101, .	1.5	15

#	ARTICLE	IF	CITATIONS
19	Protocol for Precise Field Sensing in the Optical Domain with Cold Atoms in a Cavity. Physical Review Letters, 2020, 124, 193602.	2.9	15
20	Quantum Enhanced Cavity QED Interferometer with Partially Delocalized Atoms in Lattices. Physical Review Letters, 2021, 127, 210401.	2.9	10
21	Simple laser stabilization to the strontium 88Sr transition at 707 nm. Review of Scientific Instruments, 2016, 87, 023110.	0.6	6
22	Reducing collective quantum state rotation errors with reversible dephasing. Applied Physics Letters, 2014, 105, .	1.5	4
23	Generating entanglement between atomic spins with low-noise probing of an optical cavity. , 2015, , .		1
24	Atomic doughnuts from single photons. Nature, 2015, 519, 420-421.	13.7	0
25	An active optical frequency reference using a pulsed superradiant laser. , 2019, , .		0