

# James K Thompson

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7736479/publications.pdf>

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	Cavity-QED Quantum Simulator of Dynamical Phases of a Bardeen-Cooper-Schrieffer Superconductor. Physical Review Letters, 2021, 126, 173601.	2.9	19
2	Cavity-QED measurements of the $87\text{Sr}$ millihertz optical clock transition and determination of its natural linewidth. Physical Review Research, 2021, 3, .	1.3	16
3	Quantum Enhanced Cavity QED Interferometer with Partially Delocalized Atoms in Lattices. Physical Review Letters, 2021, 127, 210401.	2.9	10
4	Protocol for Precise Field Sensing in the Optical Domain with Cold Atoms in a Cavity. Physical Review Letters, 2020, 124, 193602.	2.9	15
5	Exploring dynamical phase transitions with cold atoms in an optical cavity. Nature, 2020, 580, 602-607.	13.7	111
6	Continuous Real-Time Tracking of a Quantum Phase Below the Standard Quantum Limit. Physical Review Letters, 2019, 122, 233602.	2.9	16
7	Driven-dissipative quantum dynamics in ultra-long-lived dipoles in an optical cavity. Physical Review A, 2019, 99, .	1.0	31
8	An active optical frequency reference using a pulsed superradiant laser. , 2019, , .		0
9	Cavity-mediated collective spin-exchange interactions in a strontium superradiant laser. Science, 2018, 361, 259-262.	6.0	124
10	Frequency Measurements of Superradiance from the Strontium Clock Transition. Physical Review X, 2018, 8, .	2.8	70
11	Robust Spin Squeezing via Photon-Mediated Interactions on an Optical Clock Transition. Physical Review Letters, 2018, 121, 070403.	2.9	45
12	Phase synchronization inside a superradiant laser. Physical Review A, 2017, 95, .	1.0	33
13	Magnetically Induced Optical Transparency on a Forbidden Transition in Strontium for Cavity-Enhanced Spectroscopy. Physical Review Letters, 2017, 118, 263601.	2.9	29
14	Simple laser stabilization to the strontium $88\text{Sr}$ transition at 707 nm. Review of Scientific Instruments, 2016, 87, 023110.	0.6	6
15	Strong coupling on a forbidden transition in strontium and nondestructive atom counting. Physical Review A, 2016, 93, .	1.0	25
16	Deterministic Squeezed States with Collective Measurements and Feedback. Physical Review Letters, 2016, 116, 093602.	2.9	148
17	Superradiance on the millihertz linewidth strontium clock transition. Science Advances, 2016, 2, e1601231.	4.7	143
18	Atomic doughnuts from single photons. Nature, 2015, 519, 420-421.	13.7	0

#	ARTICLE	IF	CITATIONS
19	Generating entanglement between atomic spins with low-noise probing of an optical cavity. , 2015, , .		1
20	Cavity-aided nondemolition measurements for atom counting and spin squeezing. Physical Review A, 2014, 89, .	1.0	43
21	Reducing collective quantum state rotation errors with reversible dephasing. Applied Physics Letters, 2014, 105, .	1.5	4
22	Synchronization of Two Ensembles of Atoms. Physical Review Letters, 2014, 113, 154101.	2.9	150
23	Active and passive sensing of collective atomic coherence in a superradiant laser. Physical Review A, 2013, 88, .	1.0	21
24	Superradiant Raman laser magnetometer. Applied Physics Letters, 2012, 101, .	1.5	15
25	Conditional Spin Squeezing of a Large Ensemble via the Vacuum Rabi Splitting. Physical Review Letters, 2011, 106, 133601.	2.9	118