

# Jeffrey D Thompson

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1759944/publications.pdf>

Version: 2024-02-01

22  
papers

1,129  
citations

567281

15  
h-index

794594

19  
g-index

22  
all docs

22  
docs citations

22  
times ranked

1148  
citing authors

#	ARTICLE	IF	CITATIONS
1	Trapping Alkaline Earth Rydberg Atoms Optical Tweezer Arrays. Physical Review Letters, 2022, 128, 033201.	7.8	48
2	Universal Gate Operations on Nuclear Spin Qubits in an Optical Tweezer Array of $^{171}\text{Yb}$ Atoms. Physical Review X, 2022, 12, .	8.9	41
3	Controlling Rydberg Excitations Using Ion-Core Transitions in Alkaline-Earth Atom-Tweezer Arrays. PRX Quantum, 2022, 3, .	9.2	21
4	Erbium-implanted materials for quantum communication applications. Physical Review B, 2022, 105, .	3.2	24
5	Quantum Computer Systems for Scientific Discovery. PRX Quantum, 2021, 2, .	9.2	142
6	Hybrid microwave-optical scanning probe for addressing solid-state spins in nanophotonic cavities. Optics Express, 2021, 29, 4902.	3.4	7
7	Hybrid III-V diamond photonic platform for quantum nodes based on neutral silicon vacancy centers in diamond. Optics Express, 2021, 29, 9174.	3.4	8
8	Quantum Computing with Circular Rydberg Atoms. PRX Quantum, 2021, 2, .	9.2	34
9	Parallel single-shot measurement and coherent control of solid-state spins below the diffraction limit. Science, 2020, 370, 592-595.	12.6	87
10	Identifying candidate hosts for quantum defects via data mining. Npj Computational Materials, 2020, 6, .	8.7	28
11	Optical quantum nondemolition measurement of a single rare earth ion qubit. Nature Communications, 2020, 11, 1605.	12.8	136
12	New Host Materials for Rare Earth Ions. , 2020, , .		0
13	Spin Dynamics of Single $\text{Er}^{3+}$ Ions coupled to a Nanoscale Optical Cavity. , 2020, , .		0
14	Narrow-Line Cooling and Imaging of Ytterbium Atoms in an Optical Tweezer Array. Physical Review Letters, 2019, 122, 143002.	7.8	99
15	Narrow Optical Line Widths in Erbium Implanted in $\text{TiO}_2$ . Nano Letters, 2019, 19, 8928-8933.	9.1	30
16	Spin Dynamics of Single $\text{Er}^{3+}$ Ions in a Silicon Nanophotonic Cavity. , 2019, , .		0
17	Observation of three-photon bound states in a quantum nonlinear medium. Science, 2018, 359, 783-786.	12.6	99
18	Atomic Source of Single Photons in the Telecom Band. Physical Review Letters, 2018, 120, 243601.	7.8	217

#	ARTICLE	IF	CITATIONS
19	Symmetry-protected collisions between strongly interacting photons. <i>Nature</i> , 2017, 542, 206-209.	27.8	65
20	Effective Field Theory for Rydberg Polaritons. <i>Physical Review Letters</i> , 2016, 117, 113601.	7.8	35
21	Choose your own interaction. <i>Nature Photonics</i> , 2015, 9, 285-287.	31.4	2
22	Quantum systems under control. <i>Science</i> , 2014, 345, 272-273.	12.6	6