Jeffrey D Thompson

List of Publications by Year
in descending order

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

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22	1,129	567281 15	794594 19
papers	citations	h-index	g-index

22	22	22	1148
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Atomic Source of Single Photons in the Telecom Band. Physical Review Letters, 2018, 120, 243601.	7.8	217
2	Quantum Computer Systems for Scientific Discovery. PRX Quantum, 2021, 2, .	9.2	142
3	Optical quantum nondemolition measurement of a single rare earth ion qubit. Nature Communications, 2020, 11, 1605.	12.8	136
4	Observation of three-photon bound states in a quantum nonlinear medium. Science, 2018, 359, 783-786.	12.6	99
5	Narrow-Line Cooling and Imaging of Ytterbium Atoms in an Optical Tweezer Array. Physical Review Letters, 2019, 122, 143002.	7.8	99
6	Parallel single-shot measurement and coherent control of solid-state spins below the diffraction limit. Science, 2020, 370, 592-595.	12.6	87
7	Symmetry-protected collisions between strongly interacting photons. Nature, 2017, 542, 206-209.	27.8	65
8	Trapping Alkaline Earth Rydberg Atoms Optical Tweezer Arrays. Physical Review Letters, 2022, 128, 033201.	7.8	48
9	Universal Gate Operations on Nuclear Spin Qubits in an Optical Tweezer Array of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Yb</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>171</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> Atoms. Physical Review X, 2022, 12, .	8.9	41
10	Effective Field Theory for Rydberg Polaritons. Physical Review Letters, 2016, 117, 113601.	7.8	35
11	Quantum Computing with Circular Rydberg Atoms. PRX Quantum, 2021, 2, .	9.2	34
12	Narrow Optical Line Widths in Erbium Implanted in TiO₂. Nano Letters, 2019, 19, 8928-8933.	9.1	30
13	Identifying candidate hosts for quantum defects via data mining. Npj Computational Materials, 2020, 6, .	8.7	28
14	Erbium-implanted materials for quantum communication applications. Physical Review B, 2022, 105, .	3.2	24
15	Controlling Rydberg Excitations Using Ion-Core Transitions in Alkaline-Earth Atom-Tweezer Arrays. PRX Quantum, 2022, 3, .	9.2	21
16	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
17	Hybrid microwave-optical scanning probe for addressing solid-state spins in nanophotonic cavities. Optics Express, 2021, 29, 4902.	3.4	7
18	Quantum systems under control. Science, 2014, 345, 272-273.	12.6	6

#	Article	IF	Citations
19	Choose your own interaction. Nature Photonics, 2015, 9, 285-287.	31.4	2
20	Spin Dynamics of Single Er3+ Ions in a Silicon Nanophotonic Cavity. , 2019, , .		0
21	New Host Materials for Rare Earth Ions. , 2020, , .		0
22	Spin Dynamics of Single Er3+ Ions coupled to a Nanoscale Optical Cavity. , 2020, , .		0