

Lilian I Childress

List of Publications by Year in descending order

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32
papers

8,204
citations

257450

24
h-index

414414

32
g-index

33
all docs

33
docs citations

33
times ranked

5767
citing authors

#	ARTICLE	IF	CITATIONS
1	A mechanically stable and tunable cryogenic Fabry-Pérot microcavity. <i>Review of Scientific Instruments</i> , 2021, 92, 053906.	1.3	10
2	Spins strain to see the light. <i>Nature Physics</i> , 2021, 17, 1288-1289.	16.7	0
3	Cavity-Enhanced Photon Emission from a Single Germanium-Vacancy Center in a Diamond Membrane. <i>Physical Review Applied</i> , 2020, 13, .	3.8	22
4	Probing a Spin Transfer Controlled Magnetic Nanowire with a Single Nitrogen-Vacancy Spin in Bulk Diamond. <i>Nano Letters</i> , 2018, 18, 6494-6499.	9.1	16
5	Charge-state dynamics during excitation and depletion of the nitrogen-vacancy center in diamond. <i>Physical Review A</i> , 2018, 97, .	2.5	35
6	Superfluid Brillouin optomechanics. <i>Nature Physics</i> , 2017, 13, 74-79.	16.7	40
7	Cavity optomechanics in a levitated helium drop. <i>Physical Review A</i> , 2017, 96, .	2.5	35
8	High mechanical bandwidth fiber-coupled Fabry-Perot cavity. <i>Optics Express</i> , 2017, 25, 20932.	3.4	19
9	Efficient signal processing for time-resolved fluorescence detection of nitrogen-vacancy spins in diamond. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, B28.	2.1	38
10	Maximal Adaptive-Decision Speedups in Quantum-State Readout. <i>Physical Review X</i> , 2016, 6, .	8.9	16
11	Fabry-Perot microcavity for diamond-based photonics. <i>Physical Review A</i> , 2015, 92, .	2.5	61
12	Atom-like crystal defects: From quantum computers to biological sensors. <i>Physics Today</i> , 2014, 67, 38-43.	0.3	97
13	Diamond dynamics under control. <i>Science</i> , 2014, 345, 1247-1247.	12.6	3
14	Diamond NV centers for quantum computing and quantum networks. <i>MRS Bulletin</i> , 2013, 38, 134-138.	3.5	320
15	Heralded entanglement between solid-state qubits separated by three metres. <i>Nature</i> , 2013, 497, 86-90.	27.8	859
16	Cryogenic optomechanics with a Si ₃ N ₄ membrane and classical laser noise. <i>New Journal of Physics</i> , 2012, 14, 115018.	2.9	41
17	Two-Photon Quantum Interference from Separate Nitrogen Vacancy Centers in Diamond. <i>Physical Review Letters</i> , 2012, 108, 043604.	7.8	222
18	High-fidelity projective read-out of a solid-state spin quantum register. <i>Nature</i> , 2011, 477, 574-578.	27.8	567

#	ARTICLE	IF	CITATIONS
19	¹³ C hyperfine interactions in the nitrogen-vacancy centre in diamond. New Journal of Physics, 2011, 13, 025021.	2.9	115
20	Multifrequency spin resonance in diamond. Physical Review A, 2010, 82, .	2.5	52
21	Quantum entanglement between an optical photon and a solid-state spin qubit. Nature, 2010, 466, 730-734.	27.8	968
22	Robust control of individual nuclear spins in diamond. Physical Review A, 2009, 80, .	2.5	120
23	High-sensitivity diamond magnetometer with nanoscale resolution. Nature Physics, 2008, 4, 810-816.	16.7	1,409
24	Coherence of an Optically Illuminated Single Nuclear Spin Qubit. Physical Review Letters, 2008, 100, 073001.	7.8	51
25	Quantum Register Based on Individual Electronic and Nuclear Spin Qubits in Diamond. Science, 2007, 316, 1312-1316.	12.6	1,040
26	Fault-Tolerant Quantum Communication Based on Solid-State Photon Emitters. Physical Review Letters, 2006, 96, 070504.	7.8	297
27	Coherent Dynamics of Coupled Electron and Nuclear Spin Qubits in Diamond. Science, 2006, 314, 281-285.	12.6	1,030
28	Fault-tolerant quantum repeaters with minimal physical resources and implementations based on single-photon emitters. Physical Review A, 2005, 72, .	2.5	239
29	Mesoscopic cavity quantum electrodynamics with quantum dots. Physical Review A, 2004, 69, .	2.5	189
30	Differential Charge Sensing and Charge Delocalization in a Tunable Double Quantum Dot. Physical Review Letters, 2004, 92, 226801.	7.8	160
31	Modeling of gravity-wave tail spectra in the middle atmosphere via numerical and Doppler-spread methods. Journal of Atmospheric and Solar-Terrestrial Physics, 2004, 66, 933-948.	1.6	5
32	Shaping Quantum Pulses of Light Via Coherent Atomic Memory. Physical Review Letters, 2004, 93, 233602.	7.8	113