

David J Reilly

List of Publications by Year in descending order

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28
papers

1,639
citations

471509

17
h-index

501196

28
g-index

29
all docs

29
docs citations

29
times ranked

1694
citing authors

#	ARTICLE	IF	CITATIONS
1	Interfacing spin qubits in quantum dots and donors—hot, dense, and coherent. Npj Quantum Information, 2017, 3, .	6.7	357
2	Fast single-charge sensing with a rf quantum point contact. Applied Physics Letters, 2007, 91, .	3.3	223
3	Dispersive Readout of a Few-Electron Double Quantum Dot with Fast rf Gate Sensors. Physical Review Letters, 2013, 110, 046805.	7.8	158
4	Gate-based single-shot readout of spins in silicon. Nature Nanotechnology, 2019, 14, 437-441.	31.5	109
5	A cryogenic CMOS chip for generating control signals for multiple qubits. Nature Electronics, 2021, 4, 64-70.	26.0	105
6	Engineering the quantum-classical interface of solid-state qubits. Npj Quantum Information, 2015, 1, .	6.7	85
7	Nanodiamond-enhanced MRI via in situ hyperpolarization. Nature Communications, 2017, 8, 15118.	12.8	74
8	Frequency multiplexing for readout of spin qubits. Applied Physics Letters, 2014, 104, .	3.3	70
9	Luminescent nanodiamonds for biomedical applications. Biophysical Reviews, 2011, 3, 171-184.	3.2	67
10	Hyperpolarized nanodiamond with long spin-relaxation times. Nature Communications, 2015, 6, 8459.	12.8	62
11	An FPGA-based instrumentation platform for use at deep cryogenic temperatures. Review of Scientific Instruments, 2016, 87, 014701.	1.3	47
12	Roadmap on quantum nanotechnologies. Nanotechnology, 2021, 32, 162003.	2.6	45
13	Zero-field edge plasmons in a magnetic topological insulator. Nature Communications, 2017, 8, 1836.	12.8	32
14	Building a Quantum Engineering Undergraduate Program. IEEE Transactions on Education, 2022, 65, 220-242.	2.4	30
15	Challenges in Scaling-up the Control Interface of a Quantum Computer. , 2019, , .		26
16	Hyperpolarized Nanodiamond Surfaces. Journal of the American Chemical Society, 2017, 139, 193-199.	18.7	25
17	Phase-Encoded Hyperpolarized Nanodiamond for Magnetic Resonance Imaging. Scientific Reports, 2019, 9, 5950.	3.3	23
18	Raman phonon emission in a driven double quantum dot. Nature Communications, 2014, 5, 3716.	12.8	20

#	ARTICLE	IF	CITATIONS
19	Dispersive Readout of Majorana Qubits. PRX Quantum, 2020, 1, .	9.2	17
20	Modular cryogenic interconnects for multi-qubit devices. Review of Scientific Instruments, 2014, 85, 114706.	1.3	13
21	Repairing the surface of InAs-based topological heterostructures. Journal of Applied Physics, 2020, 128, 114301.	2.5	11
22	Tailored nanodiamonds for hyperpolarized C^{13} MRI. Physical Review B, 2020, 101, .	3.2	11
23	Solid-state spins survive. Nature Nanotechnology, 2011, 6, 9-11.	31.5	9
24	Suppressing on-chip electromagnetic crosstalk for spin qubit devices. Journal of Applied Physics, 2012, 112, .	2.5	5
25	Microwave absorption by a mesoscopic quantum Hall droplet. Physical Review B, 2013, 88, .	3.2	5
26	Enhancement of nuclear spin coherence times by driving dynamic nuclear polarization at defect centers in solids. Physical Review B, 2019, 99, .	3.2	4
27	A Cryo-CMOS Voltage Reference in 28-nm FDSOI. IEEE Solid-State Circuits Letters, 2020, 3, 186-189.	2.0	2
28	Josephson junctions via anodization of epitaxial Al on an InAs heterostructure. Applied Physics Letters, 2021, 119, .	3.3	2