

David J Reilly

List of Publications by Year in descending order

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28
papers

1,639
citations

535685

17
h-index

563245

28
g-index

29
all docs

29
docs citations

29
times ranked

1894
citing authors

#	ARTICLE	IF	CITATIONS
1	Building a Quantum Engineering Undergraduate Program. IEEE Transactions on Education, 2022, 65, 220-242.	2.0	30
2	A cryogenic CMOS chip for generating control signals for multiple qubits. Nature Electronics, 2021, 4, 64-70.	13.1	105
3	Roadmap on quantum nanotechnologies. Nanotechnology, 2021, 32, 162003.	1.3	45
4	Josephson junctions via anodization of epitaxial Al on an InAs heterostructure. Applied Physics Letters, 2021, 119, .	1.5	2
5	Repairing the surface of InAs-based topological heterostructures. Journal of Applied Physics, 2020, 128, 114301.	1.1	11
6	A Cryo-CMOS Voltage Reference in 28-nm FDSOI. IEEE Solid-State Circuits Letters, 2020, 3, 186-189.	1.3	2
7	Tailored nanodiamonds for hyperpolarized ^{13}C MRI. Physical Review B, 2020, 101, .	1.1	11
8	Dispersive Readout of Majorana Qubits. PRX Quantum, 2020, 1, .	3.5	17
9	Enhancement of nuclear spin coherence times by driving dynamic nuclear polarization at defect centers in solids. Physical Review B, 2019, 99, .	1.1	4
10	Phase-Encoded Hyperpolarized Nanodiamond for Magnetic Resonance Imaging. Scientific Reports, 2019, 9, 5950.	1.6	23
11	Gate-based single-shot readout of spins in silicon. Nature Nanotechnology, 2019, 14, 437-441.	15.6	109
12	Challenges in Scaling-up the Control Interface of a Quantum Computer. , 2019, , .		26
13	Nanodiamond-enhanced MRI via in situ hyperpolarization. Nature Communications, 2017, 8, 15118.	5.8	74
14	Hyperpolarized Nanodiamond Surfaces. Journal of the American Chemical Society, 2017, 139, 193-199.	6.6	25
15	Interfacing spin qubits in quantum dots and donors—hot, dense, and coherent. Npj Quantum Information, 2017, 3, .	2.8	357
16	Zero-field edge plasmons in a magnetic topological insulator. Nature Communications, 2017, 8, 1836.	5.8	32
17	An FPGA-based instrumentation platform for use at deep cryogenic temperatures. Review of Scientific Instruments, 2016, 87, 014701.	0.6	47
18	Engineering the quantum-classical interface of solid-state qubits. Npj Quantum Information, 2015, 1, .	2.8	85

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19	Hyperpolarized nanodiamond with long spin-relaxation times. Nature Communications, 2015, 6, 8459.	5.8	62
20	Modular cryogenic interconnects for multi-qubit devices. Review of Scientific Instruments, 2014, 85, 114706.	0.6	13
21	Frequency multiplexing for readout of spin qubits. Applied Physics Letters, 2014, 104, .	1.5	70
22	Raman phonon emission in a driven double quantum dot. Nature Communications, 2014, 5, 3716.	5.8	20
23	Dispersive Readout of a Few-Electron Double Quantum Dot with Fast rf Gate Sensors. Physical Review Letters, 2013, 110, 046805.	2.9	158
24	Microwave absorption by a mesoscopic quantum Hall droplet. Physical Review B, 2013, 88, .	1.1	5
25	Suppressing on-chip electromagnetic crosstalk for spin qubit devices. Journal of Applied Physics, 2012, 112, .	1.1	5
26	Solid-state spins survive. Nature Nanotechnology, 2011, 6, 9-11.	15.6	9
27	Luminescent nanodiamonds for biomedical applications. Biophysical Reviews, 2011, 3, 171-184.	1.5	67
28	Fast single-charge sensing with a rf quantum point contact. Applied Physics Letters, 2007, 91, .	1.5	223