List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Qubit teleportation between non-neighbouring nodes in a quantum network. Nature, 2022, 605, 663-668.	27.8	99
2	Telecom-Band Quantum Interference of Frequency-Converted Photons from Remote Detuned NV Centers. PRX Quantum, 2022, 3, .	9.2	13
3	Resonant Excitation and Purcell Enhancement of Coherent Nitrogen-Vacancy Centers Coupled to a Fabry-Perot Microcavity. Physical Review Applied, 2021, 15, .	3.8	39
4	Realization of a multinode quantum network of remote solid-state qubits. Science, 2021, 372, 259-264.	12.6	314
5	Quantum networks based on color centers in diamond. Journal of Applied Physics, 2021, 130, .	2.5	105
6	Realization of a Multi-Node Quantum Network of Remote Solid-State Qubits. , 2021, , .		0
7	Orbital and Spin Dynamics of Single Neutrally-Charged Nitrogen-Vacancy Centers in Diamond. Physical Review Letters, 2020, 125, 193601.	7.8	16
8	Witnessing entanglement in experiments with correlated noise. Quantum Science and Technology, 2020, 5, 035007.	5.8	4
9	Entanglement between a Diamond Spin Qubit and a Photonic Time-Bin Qubit at Telecom Wavelength. Physical Review Letters, 2019, 123, 063601.	7.8	59
10	Multipartite Entanglement Generation and Contextuality Tests Using Nondestructive Three-Qubit Parity Measurements. Physical Review Letters, 2019, 123, 050401.	7.8	27
11	Towards a realization of device-independent quantum key distribution. Quantum Science and Technology, 2019, 4, 035011.	5.8	34
12	A link layer protocol for quantum networks. , 2019, , .		124
13	Optically Coherent Nitrogen-Vacancy Centers in Micrometer-Thin Etched Diamond Membranes. Nano Letters, 2019, 19, 3987-3992.	9.1	59
14	Near-term quantum-repeater experiments with nitrogen-vacancy centers: Overcoming the limitations of direct transmission. Physical Review A, 2019, 99, .	2.5	88
15	Optical coherence of diamond nitrogen-vacancy centers formed by ion implantation and annealing. Physical Review B, 2019, 99, .	3.2	75
16	Parameter regimes for a single sequential quantum repeater. Quantum Science and Technology, 2018, 3, 034002.	5.8	44
17	Light, the universe and everything – 12 Herculean tasks for quantum cowboys and black diamond skiers. Journal of Modern Optics, 2018, 65, 1261-1308.	1.3	6
18	Optimal design of diamond-air microcavities for quantum networks using an analytical approach. New Journal of Physics. 2018. 20. 115004.	2.9	17

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19	Quantum internet: A vision for the road ahead. Science, 2018, 362, .	12.6	1,098
20	Quantum technologies with optically interfaced solid-state spins. Nature Photonics, 2018, 12, 516-527.	31.4	581
21	Quantum Frequency Conversion of Single Photons from a Nitrogen-Vacancy Center in Diamond to Telecommunication Wavelengths. Physical Review Applied, 2018, 9, .	3.8	90
22	Dephasing mechanisms of diamond-based nuclear-spin memories for quantum networks. Physical Review A, 2018, 97, .	2.5	54
23	Deterministic delivery of remote entanglement on a quantum network. Nature, 2018, 558, 268-273.	27.8	348
24	Entanglement distillation between solid-state quantum network nodes. Science, 2017, 356, 928-932.	12.6	277
25	Multiplexed entanglement generation over quantum networks using multi-qubit nodes. Quantum Science and Technology, 2017, 2, 034002.	5.8	30
26	Robust nano-fabrication of an integrated platform for spin control in a tunable microcavity. APL Photonics, 2017, 2, .	5.7	17
27	Design and low-temperature characterization of a tunable microcavity for diamond-based quantum networks. Applied Physics Letters, 2017, 110, .	3.3	41
28	Repeated quantum error correction on a continuously encoded qubit by real-time feedback. Nature Communications, 2016, 7, 11526.	12.8	174
29	Robust Quantum-Network Memory Using Decoherence-Protected Subspaces of Nuclear Spins. Physical Review X, 2016, 6, .	8.9	92
30	Diamond defects cooperate via light. Science, 2016, 354, 835-836.	12.6	3
31	Experimental creation of quantum Zeno subspaces by repeated multi-spin projections in diamond. Nature Communications, 2016, 7, 13111.	12.8	32
32	From the first loophole-free Bell test to a Quantum Internet. , 2016, , .		0
33	Coherent manipulation, measurement and entanglement of individual solid-state spins using optical fields. Nature Photonics, 2015, 9, 363-373.	31.4	208
34	Loophole-free Bell inequality violation using electron spins separated by 1.3 kilometres. Nature, 2015, 526, 682-686.	27.8	1,762
35	Towards quantum networks of single spins: analysis of a quantum memory with an optical interface in diamond. Faraday Discussions, 2015, 184, 173-182.	3.2	25
36	Manipulating a qubit through the backaction of sequential partial measurements and real-timeÂfeedback. Nature Physics, 2014, 10, 189-193.	16.7	104

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37	Unconditional quantum teleportation between distant solid-state quantum bits. Science, 2014, 345, 532-535.	12.6	421
38	Universal control and error correction in multi-qubit spin registers in diamond. Nature Nanotechnology, 2014, 9, 171-176.	31.5	309
39	Diamond NV centers for quantum computing and quantum networks. MRS Bulletin, 2013, 38, 134-138.	3.5	320
40	Heralded entanglement between solid-state qubits separated by three metres. Nature, 2013, 497, 86-90.	27.8	859
41	Demonstration of entanglement-by-measurement of solid-state qubits. Nature Physics, 2013, 9, 29-33.	16.7	127
42	Comparison of dynamical decoupling protocols for a nitrogen-vacancy center in diamond. Physical Review B, 2012, 85, .	3.2	76
43	Controlling the quantum dynamics of a mesoscopic spin bath in diamond. Scientific Reports, 2012, 2, 382.	3.3	107
44	Detection and Control of Individual Nuclear Spins Using a Weakly Coupled Electron Spin. Physical Review Letters, 2012, 109, 137602.	7.8	222
45	Decoherence-protected quantum gates for a hybrid solid-state spin register. Nature, 2012, 484, 82-86.	27.8	320
46	Two-Photon Quantum Interference from Separate Nitrogen Vacancy Centers in Diamond. Physical Review Letters, 2012, 108, 043604.	7.8	222
47	High-fidelity projective read-out of a solid-state spin quantum register. Nature, 2011, 477, 574-578.	27.8	567
48	Deterministic nanoassembly of a coupled quantum emitter–photonic crystal cavity system. Applied Physics Letters, 2011, 98, .	3.3	83
49	Single-Spin Magnetometry with Multipulse Sensing Sequences. Physical Review Letters, 2011, 106, 080802.	7.8	164
50	Spin dynamics in the optical cycle of single nitrogen-vacancy centres in diamond. New Journal of Physics, 2011, 13, 025013.	2.9	202
51	Universal Dynamical Decoupling of a Single Solid-State Spin from a Spin Bath. Science, 2010, 330, 60-63.	12.6	591
52	Bootstrap Tomography of the Pulses for Quantum Control. Physical Review Letters, 2010, 105, 077601.	7.8	19
53	Control and Coherence of the Optical Transition of Single Nitrogen Vacancy Centers in Diamond. Physical Review Letters, 2010, 105, 177403.	7.8	92
54	Decay of Rabi Oscillations by Dipolar-Coupled Dynamical Spin Environments. Physical Review Letters, 2009, 102, 237601.	7.8	73

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55	Mother Nature outgrown. Nature Materials, 2009, 8, 368-369.	27.5	3
56	Nanopositioning of a diamond nanocrystal containing a single nitrogen-vacancy defect center. Applied Physics Letters, 2009, 94, 173104.	3.3	76
57	Coherent manipulation of single spins in semiconductors. Nature, 2008, 453, 1043-1049.	27.8	422
58	Quenching Spin Decoherence in Diamond through Spin Bath Polarization. Physical Review Letters, 2008, 101, 047601.	7.8	207
59	Coherent Dynamics of a Single Spin Interacting with an Adjustable Spin Bath. Science, 2008, 320, 352-355.	12.6	365
60	Decoherence dynamics of a single spin versus spin ensemble. Physical Review B, 2008, 77, .	3.2	55
61	Excited-State Spectroscopy Using Single Spin Manipulation in Diamond. Physical Review Letters, 2008, 101, 117601.	7.8	160
62	Universal Set of Quantum Gates for Double-Dot Spin Qubits with Fixed Interdot Coupling. Physical Review Letters, 2007, 98, 050502.	7.8	116
63	Spins in few-electron quantum dots. Reviews of Modern Physics, 2007, 79, 1217-1265.	45.6	2,166
64	The Diamond Age Diamond Age of Spintronics. Scientific American, 2007, 297, 84-91.	1.0	97
65	Room-temperature manipulation and decoherence of a single spin in diamond. Physical Review B, 2006, 74, .	3.2	122
66	Polarization and Readout of Coupled Single Spins in Diamond. Physical Review Letters, 2006, 97, 087601.	7.8	210
67	Single-Shot Readout of Electron Spin States in a Quantum Dot Using Spin-Dependent Tunnel Rates. Physical Review Letters, 2005, 94, 196802.	7.8	281
68	Control and Detection of Singlet-Triplet Mixing in a Random Nuclear Field. Science, 2005, 309, 1346-1350.	12.6	490
69	Single-shot read-out of an individual electron spin in a quantum dot. Nature, 2004, 430, 431-435.	27.8	1,395