William J Munro

List of Publications by Citations

218 papers	12,666 citations	53 h-index	108 g-index
243 ext. papers	15,061 ext. citations	5.9 avg, IF	6.42 L-index

#	Paper	IF	Citations
218	Linear optical quantum computing with photonic qubits. *Reviews of Modern Physics*, **2007**, 79, 135-174	40.5	1596
217	Measurement of qubits. *Physical Review A*, **2001**, 64,	2.6	1214
216	Nearly deterministic linear optical controlled-NOT gate. *Physical Review Letters*, **2004**, 93, 250502	7.4	517
215	Quantum computation with optical coherent states. *Physical Review A*, **2003**, 68,	2.6	429
214	Coherent coupling of a superconducting flux qubit to an electron spin ensemble in diamond. *Nature* , **2011**, 478, 221-4	50.4	321
213	Weak nonlinearities: a new route to optical quantum computation. *New Journal of Physics*, **2005**, 7, 137-137	2.9	262
212	Quantum metrology with entangled coherent states. *Physical Review Letters*, **2011**, 107, 083601	7.4	260
211	Symmetry analyzer for nondestructive Bell-state detection using weak nonlinearities. *Physical Review A*, **2005**, 71,	2.6	257
210	Giant optical Faraday rotation induced by a single-electron spin in a quantum dot: Applications to entangling remote spins via a single photon. *Physical Review B*, **2008**, 78,	3.3	243
209	Maximal entanglement versus entropy for mixed quantum states. *Physical Review A*, **2003**, 67,	2.6	229
208	Macroscopically distinct quantum-superposition states as a bosonic code for amplitude damping. *Physical Review A*, **1999**, 59, 2631-2634	2.6	211
207	Hybrid quantum repeater using bright coherent light. *Physical Review Letters*, **2006**, 96, 240501	7.4	208
206	Qudit quantum-state tomography. *Physical Review A*, **2002**, 66,	2.6	203
205	Maximizing the entanglement of two mixed qubits. *Physical Review A*, **2001**, 64,	2.6	199
204	Quantum error correction for beginners. *Reports on Progress in Physics*, **2013**, 76, 076001	14.4	195
203	High-efficiency quantum-nondemolition single-photon-number-resolving detector. *Physical Review A*, **2005**, 71,	2.6	175
202	Proposed entanglement beam splitter using a quantum-dot spin in a double-sided optical microcavity. *Physical Review B*, **2009**, 80,	3.3	167

201	Quantum computation by communication. *New Journal of Physics*, **2006**, 8, 30-30	2.9	160
200	Deterministic photon entangler using a charged quantum dot inside a microcavity. *Physical Review B*, **2008**, 78,	3.3	159
199	Quantum repeater with encoding. *Physical Review A*, **2009**, 79,	2.6	157
198	Quantum communication without the necessity of quantum memories. *Nature Photonics*, **2012**, 6, 777-781	33.9	145
197	Simple scheme for efficient linear optics quantum gates. *Physical Review A*, **2001**, 65,	2.6	136
196	Hybrid quantum repeater based on dispersive CQED interactions between matter qubits and bright coherent light. *New Journal of Physics*, **2006**, 8, 184-184	2.9	125
195	Weak-force detection with superposed coherent states. *Physical Review A*, **2002**, 66,	2.6	117
194	Quantum optical microcombs. *Nature Photonics*, **2019**, 13, 170-179	33.9	115
193	From quantum multiplexing to high-performance quantum networking. *Nature Photonics*, **2010**, 4, 792-796	33.9	110
192	Schrödinger cats and their power for quantum information processing. *Journal of Optics B: Quantum and Semiclassical Optics*, **2004**, 6, S828-S833		110
191	Inside Quantum Repeaters. *IEEE Journal of Selected Topics in Quantum Electronics*, **2015**, 21, 78-90	3.8	104
190	Entangled coherent-state qubits in an ion trap. *Physical Review A*, **2000**, 62,	2.6	103
189	A monolithically integrated polarization entangled photon pair source on a silicon chip. *Scientific Reports*, **2012**, 2, 817	4.9	98
188	Bell's inequality for an entanglement of nonorthogonal states. *Physical Review A*, **1995**, 51, 989-991	2.6	88
187	Device-independent quantum random-number generation. *Nature*, **2018**, 562, 548-551	50.4	88
186	Exploring Hilbert space: Accurate characterization of quantum information. *Physical Review A*, **2001**, 65,	2.6	86
185	Photonic Architecture for Scalable Quantum Information Processing in Diamond. *Physical Review X*, **2014**, 4,	9.1	85
184	Non-rotating-wave master equation. *Physical Review A*, **1996**, 53, 2633-2640	2.6	84

183	Towards realizing a quantum memory for a superconducting qubit: storage and retrieval of quantum states. *Physical Review Letters*, **2013**, 111, 107008	7.4	83
182	Efficient quantum computing using coherent photon conversion. *Nature*, **2011**, 478, 360-3	50.4	80
181	System Design for a Long-Line Quantum Repeater. *IEEE/ACM Transactions on Networking*, **2009**, 17, 1002-1013	3.6	79
180	Using Quantum Computers for Quantum Simulation. *Entropy*, **2010**, 12, 2268-2307	2.8	78
179	Architectural design for a topological cluster state quantum computer. *New Journal of Physics*, **2009**, 11, 083032	2.9	74
178	A strict experimental test of macroscopic realism in a superconducting flux qubit. *Nature Communications*, **2016**, 7, 13253	17.4	73
177	High-dimensional one-way quantum processing implemented on d-level cluster states. *Nature Physics*, **2019**, 15, 148-153	16.2	73
176	Quantum dynamics of three coupled atomic Bose-Einstein condensates. *Physical Review A*, **2000**, 63,	2.6	72
175	Decoherence of geometric phase gates. *Physical Review A*, **2002**, 65,	2.6	69
174	Wigner Functions for Arbitrary Quantum Systems. *Physical Review Letters*, **2016**, 117, 180401	7.4	68
173	The efficiencies of generating cluster states with weak nonlinearities. *New Journal of Physics*, **2007**, 9, 193-193	2.9	67
172	Quantum repeaters using coherent-state communication. *Physical Review A*, **2008**, 78,	2.6	65
171	Roadmap on all-optical processing. *Journal of Optics (United Kingdom)*, **2019**, 21, 063001	1.7	63
170	Quantum metrology for nonlinear phase shifts with entangled coherent states. *Physical Review A*, **2012**, 86,	2.6	61
169	Quantum tagging: Authenticating location via quantum information and relativistic signaling constraints. *Physical Review A*, **2011**, 84,	2.6	58
168	Photonic module: An on-demand resource for photonic entanglement. *Physical Review A*, **2007**, 76,	2.6	58
167	Superradiant emission from colour centres in diamond. *Nature Physics*, **2018**, 14, 1168-1172	16.2	55
166	High-bandwidth hybrid quantum repeater. *Physical Review Letters*, **2008**, 101, 040502	7.4	54

165	Optimal states for Bell-inequality violations using quadrature-phase homodyne measurements. *Physical Review A*, **1999**, 59, 4197-4201	2.6	53
164	An introduction to quantum information processing: applications and realizations. *Contemporary Physics*, **2005**, 46, 407-436	3.3	52
163	Secure self-calibrating quantum random-bit generator. *Physical Review A*, **2007**, 75,	2.6	51
162	Observation of Collective Coupling between an Engineered Ensemble of Macroscopic Artificial Atoms and a Superconducting Resonator. *Physical Review Letters*, **2016**, 117, 210503	7.4	50
161	Hybrid quantum computation in quantum optics. *Physical Review A*, **2008**, 78,	2.6	50
160	Low cost and compact quantum key distribution. *New Journal of Physics*, **2006**, 8, 249-249	2.9	50
159	Efficient optical quantum information processing. *Journal of Optics B: Quantum and Semiclassical Optics*, **2005**, 7, S135-S140		49
158	An on-chip coupled resonator optical waveguide single-photon buffer. *Nature Communications*, **2013**, 4, 2725	17.4	47
157	Teleportation using coupled oscillator states. *Physical Review A*, **2000**, 62,	2.6	46
156	Quantum teleportation of optical quantum gates. *Physical Review Letters*, **2003**, 90, 117901	7.4	45
155	Measurement-induced nonlinearity in linear optics. *Physical Review A*, **2003**, 68,	2.6	45
154	Quantum walks on a programmable two-dimensional 62-qubit superconducting processor. *Science*, **2021**, 372, 948-952	33.3	44
153	Requirements for fault-tolerant factoring on an atom-optics quantum computer. *Nature Communications*, **2013**, 4, 2524	17.4	42
152	Applications of electromagnetically induced transparency to quantum information processing. *Journal of Modern Optics*, **2004**, 51, 2441-2448	1.1	42
151	All-photonic intercity quantum key distribution. *Nature Communications*, **2015**, 6, 10171	17.4	41
150	Loss in hybrid qubit-bus couplings and gates. *Physical Review A*, **2008**, 78,	2.6	39
149	Experimentally realizable characterizations of continuous-variable Gaussian states. *Physical Review A*, **2002**, 66,	2.6	39
148	Proposal for the measurement of bell-type correlations from continuous variables. *Physical Review Letters*, **2000**, 85, 2035-9	7.4	39

147	High-speed quantum gates with cavity quantum electrodynamics. *Physical Review A*, **2008**, 78,	2.6	38
146	Deterministic optical quantum computer using photonic modules. *Physical Review A*, **2008**, 78,	2.6	37
145	Weak nonlinearities and cluster states. *Physical Review A*, **2007**, 75,	2.6	37
144	Proposed Robust Entanglement-Based Magnetic Field Sensor Beyond the Standard Quantum Limit. *Physical Review Letters*, **2015**, 115, 170801	7.4	35
143	Generalized Toffoli gates using qudit catalysis. *Physical Review A*, **2009**, 80,	2.6	35
142	Entanglement is not a critical resource for quantum metrology. *Physical Review A*, **2010**, 81,	2.6	34
141	Photonic Quantum Networks formed from NV(-) centers. *Scientific Reports*, **2016**, 6, 26284	4.9	33
140	Bounds on entanglement in qudit subsystems. *Physical Review A*, **2002**, 66,	2.6	32
139	Quantum computation with mesoscopic superposition states. *Physical Review A*, **2000**, 61,	2.6	32
138	Using Dark States to Charge and Stabilize Open Quantum Batteries. *Physical Review Applied*, **2020**, 14,	4.3	32
137	Leggett-Garg inequality violations with a large ensemble of qubits. *Physical Review A*, **2016**, 94,	2.6	32
136	Test of Local Realism into the Past without Detection and Locality Loopholes. *Physical Review Letters*, **2018**, 121, 080404	7.4	31
135	Arithmetic on a distributed-memory quantum multicomputer. *ACM Journal on Emerging Technologies in Computing Systems*, **2008**, 3, 1-23	1.7	31
134	The Bell inequality: a measure of entanglement?. *Journal of Modern Optics*, **2001**, 48, 1239-1246	1.1	31
133	Observation of dark states in a superconductor diamond quantum hybrid system. *Nature Communications*, **2014**, 5, 3424	17.4	30
132	Spectral hole burning and its application in microwave photonics. *Nature Photonics*, **2017**, 11, 36-39	33.9	30
131	Macroscopic boson states exhibiting the Greenberger-Horne-Zeilinger contradiction with local realism. *Physical Review Letters*, **1992**, 69, 997-1001	7.4	30
130	Measures of entanglement in multipartite bound entangled states. *Physical Review A*, **2004**, 70,	2.6	29

129	Universal quantum computation on the power of quantum non-demolition measurements. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2005**, 344, 104-110	2.3	29
128	Quantum computation based on linear optics **2002**, 4917, 1		28
127	Violation of multiparticle Bell inequalities for low- and high-flux parametric amplification using both vacuum and entangled input states. *Physical Review A*, **2002**, 66,	2.6	27
126	Transient macroscopic quantum superposition states in degenerate parametric oscillation: Calculations in the large-quantum-noise limit using the positive P representation. *Physical Review A*, **1994**, 50, 4330-4338	2.6	27
125	Ultralong relaxation times in bistable hybrid quantum systems. *Science Advances*, **2017**, 3, e1701626	14.3	25
124	Quantum analogue computing. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2010**, 368, 3609-20	3	25
123	Bell inequality test with entangled atoms. *Physical Review A*, **2000**, 62,	2.6	25
122	On-chip generation and demultiplexing of quantum correlated photons using a silicon-silica monolithic photonic integration platform. *Optics Express*, **2014**, 22, 22831-40	3.3	24
121	An efficient and compact switch for quantum circuits. *Npj Quantum Information*, **2018**, 4,	8.6	24
120	Optically detected magnetic resonance of high-density ensemble of NV centers in diamond. *Journal of Physics Condensed Matter*, **2016**, 28, 275302	1.8	23
119	Versatile relative entropy bounds for quantum networks. *New Journal of Physics*, **2018**, 20, 013033	2.9	23
118	Reduce, reuse, recycle for robust cluster-state generation. *Physical Review A*, **2011**, 83,	2.6	22
117	Quantum-classical crossover of a field mode. *Physical Review A*, **2009**, 79,	2.6	21
116	Improving the coherence time of a quantum system via a coupling to a short-lived system. *Physical Review Letters*, **2015**, 114, 120501	7.4	20
115	Effect of multimode entanglement on lossy optical quantum metrology. *Physical Review A*, **2014**, 90,	2.6	20
114	CLASSICAL PROCESSING REQUIREMENTS FOR A TOPOLOGICAL QUANTUM COMPUTING SYSTEM. *International Journal of Quantum Information*, **2010**, 08, 121-147	0.8	20
113	Generalized parity measurements. *Physical Review A*, **2008**, 78,	2.6	20
112	Applications of coherent population transfer to quantum information processing. *Journal of Modern Optics*, **2004**, 51, 1559-1601	1.1	20

111	Characterizing Greenberger-Horne-Zeilinger Correlations in Nondegenerate Parametric Oscillation via Phase Measurements. *Physical Review Letters*, **1998**, 81, 4285-4288	7.4	20
110	Evidence for the conjecture that sampling generalized cat states with linear optics is hard. *Physical Review A*, **2015**, 91,	2.6	19
109	Comment on Dissipative Quantum Dynamics with a Lindblad Functional *Physical Review Letters*, **1998**, 80, 5702-5702	7.4	19
108	Attaining subclassical metrology in lossy systems with entangled coherent states. *Physical Review A* , **2014**, 89,	2.6	18
107	Memory-assisted quantum key distribution with a single nitrogen-vacancy center. *Physical Review A* , **2017**, 96,	2.6	18
106	Repeaters for continuous-variable quantum communication. *Physical Review A*, **2018**, 98,	2.6	18
105	Improving the lifetime of the nitrogen-vacancy-center ensemble coupled with a superconducting flux qubit by applying magnetic fields. *Physical Review A*, **2015**, 91,	2.6	17
104	High-threshold topological quantum error correction against biased noise. *Physical Review A*, **2013**, 88,	2.6	17
103	Hybrid-system approach to fault-tolerant quantum communication. *Physical Review A*, **2013**, 87,	2.6	17
102	Signatures of the pair-coherent state. *Journal of Optics B: Quantum and Semiclassical Optics*, **2000**, 2, 47-52		17
101	Violation of Bell's inequality by macroscopic states generated via parametric down-conversion. *Physical Review A*, **1993**, 47, 4412-4421	2.6	17
100	A hybrid-systems approach to spin squeezing using a highly dissipative ancillary system. *New Journal of Physics*, **2016**, 18, 053011	2.9	17
99	Measurement-device-independent quantum key distribution with nitrogen vacancy centers in diamond. *Physical Review A*, **2017**, 95,	2.6	16
98	Quantum error correction via robust probe modes. *Physical Review A*, **2006**, 73,	2.6	16
97	Mixed state entanglement: Manipulating polarization-entangled photons. *Physical Review A*, **2001**, 64,	2.6	16
96	Quantum Metrology beyond the Classical Limit under the Effect of Dephasing. *Physical Review Letters*, **2018**, 120, 140501	7.4	15
95	Electron paramagnetic resonance spectroscopy using a single artificial atom. *Communications Physics*, **2019**, 2,	5.4	14
94	Electron paramagnetic resonance spectroscopy using a direct current-SQUID magnetometer directly coupled to an electron spin ensemble. *Applied Physics Letters*, **2016**, 108, 052601	3.4	14

93	Relaxation to Negative Temperatures in Double Domain Systems. *Physical Review Letters*, **2018**, 120, 060403	7.4	13
92	Environmental engineering for quantum energy transport. *Npj Quantum Information*, **2018**, 4,	8.6	13
91	Ancilla-based quantum simulation. *New Journal of Physics*, **2011**, 13, 095007	2.9	13
90	Radiative corrections and quantum gates in molecular systems. *Physical Review Letters*, **2004**, 93, 250501	7.4	13
89	Transient macroscopic quantum superposition states in degenerate parametric oscillation using squeezed reservoir fields. *Physical Review A*, **1995**, 52, 2388-2391	2.6	13
88	Optimal Trotterization in universal quantum simulators under faulty control. *Physical Review A*, **2015**, 91,	2.6	12
87	Pulse shaping by coupled cavities: Single photons and qudits. *Physical Review A*, **2009**, 80,	2.6	12
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85	Error tolerance and tradeoffs in loss- and failure-tolerant quantum computing schemes. *Physical Review A*, **2007**, 75,	2.6	12
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82	Nonclassicality and information exchange in deterministic entanglement formation. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2004**, 320, 352-359	2.3	11
81	Qudit Entanglement **2001**, 149-164		11
80	Characterizing twin-particle entanglement in double-well potentials. *Physical Review A*, **2018**, 98,	2.6	11
79	Layer-by-layer generation of cluster states. *Physical Review A*, **2012**, 85,	2.6	10
78	Ergodic-Localized Junctions in a Periodically Driven Spin Chain. *Physical Review Letters*, **2020**, 125, 170503	7.4	10
77	Quantum measurement with chaotic apparatus. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2010**, 374, 2809-2815	2.3	9
76	Measurement and State Preparation via Ion Trap Quantum Computing. *Fortschritte Der Physik*, **1998**, 46, 391-399	5.7	9

75	Feed-forward and its role in conditional linear optical quantum dynamics. *Physical Review A*, **2006**, 73,	2.6	9
74	Entanglement generation in persistent current qubits. *Physical Review B*, **2004**, 70,	3.3	9
73	Disagreement between correlations of quantum mechanics and stochastic electrodynamics in the damped parametric oscillator. *Physical Review A*, **2000**, 62,	2.6	9
72	Quantum metrology including state preparation and readout times. *Physical Review A*, **2016**, 94,	2.6	9
71	High-fidelity spin measurement on the nitrogen-vacancy center. *New Journal of Physics*, **2017**, 19, 103002	2.9	8
70	Superconducting qubit as a quantum transformer routing entanglement between a microscopic quantum memory and a macroscopic resonator. *Physical Review B*, **2011**, 84,	3.3	8
69	Spectral effects of strong $\chi^{(2)}$ nonlinearity for quantum processing. *Physical Review A*, **2009**, 79,	2.6	8
68	Intracavity weak nonlinear phase shifts with single photon driving. *Optics Communications*, **2010**, 283, 741-746	2	8
67	Towards a quantum information technology industry. *Journal of Physics Condensed Matter*, **2006**, 18, V1-V10	1.8	8
66	Distributed Arithmetic on a Quantum Multicomputer		8
65	Improving detectors using entangling quantum copiers. *Physical Review A*, **1999**, 61,	2.6	8
64	Electron paramagnetic resonance spectroscopy of Er3+:Y2SiO5 using a Josephson bifurcation amplifier: Observation of hyperfine and quadrupole structures. *Physical Review Materials*, **2018**, 2,	3.2	8
63	Simulating complex quantum networks with time crystals. *Science Advances*, **2020**, 6,	14.3	8
62	Experimental Realization of Device-Independent Quantum Randomness Expansion. *Physical Review Letters*, **2021**, 126, 050503	7.4	8
61	Phonon-bottlenecked spin relaxation of Er3+:Y2SiO5at sub-kelvin temperatures. *Applied Physics Express*, **2018**, 11, 043002	2.4	7
60	Entanglement creation using quantum interrogation. *Physical Review A*, **2002**, 66,	2.6	7
59	Upper bound on the region of separable states near the maximally mixed state. *Journal of Optics B: Quantum and Semiclassical Optics*, **2000**, 2, 225-229		7
58	Quantum multiplexing. *Physical Review A*, **2019**, 99,	2.6	7

57	Making the most of time in quantum metrology: concurrent state preparation and sensing. *Quantum Science and Technology*, **2018**, 3, 035007	5.5	7
56	High-fidelity gate operations with the coupled nuclear and electron spins of a nitrogen-vacancy center in diamond. *Physical Review A*, **2014**, 89,	2.6	6
55	Absorption-based quantum communication with NV centres. *New Journal of Physics*, **2015**, 17, 103012	2.9	6
54	Coherent control of an NV□enter with one adjacent13C. *New Journal of Physics*, **2014**, 16, 093043	2.9	6
53	Integration of highly probabilistic sources into optical quantum architectures: perpetual quantum computation. *New Journal of Physics*, **2011**, 13, 095001	2.9	6
52	Practical limitations in optical entanglement purification. *Physical Review A*, **2006**, 73,	2.6	6
51	Multiparticle and higher-spin tests of quantum mechanics using parametric down-conversion. *Physical Review A*, **1994**, 50, 3661-3681	2.6	6
50	Quantum noise reduction in the squeezed pump non-degenerate parametric oscillator. *Journal of the European Optical Society Part B: Quantum Optics*, **1992**, 4, 181-187		6
49	Quantum remote sensing with asymmetric information gain. *Physical Review A*, **2019**, 99,	2.6	6
48	Fisher information versus signal-to-noise ratio for a split detector. *Physical Review A*, **2015**, 92,	2.6	5
47	Overcoming decoherence in the collapse and revival of spin Schr□dinger-cat states. *Physical Review A*, **2012**, 85,	2.6	5
46	Stabilizer quantum error correction with quantum bus computation. *Physical Review A*, **2007**, 76,	2.6	5
45	Input states for quantum gates. *Physical Review A*, **2003**, 67,	2.6	5
44	Comment on "measuring a photonic qubit without destroying it. *Physical Review Letters*, **2005**, 95, 048901; author reply 048902	7.4	5
43	Quantum copying can increase the practically available information. *Physical Review A*, **2000**, 62,	2.6	5
42	Effective Compression of Quantum Braided Circuits Aided by ZX-Calculus. *Physical Review X*, **2020**, 10,	9.1	5
41	Practical limits of error correction for quantum metrology. *New Journal of Physics*, **2021**, 23, 043038	2.9	5
40	Ergodic-localized junctions in periodically driven systems. *Physical Review B*, **2018**, 98,	3.3	5

39	Universal N-Partite d-Level Pure-State Entanglement Witness Based on Realistic Measurement Settings. *Physical Review Letters*, **2019**, 122, 120501	7.4	4
38	Quantum Process Tomography of a Controlled-Phase Gate for Time-Bin Qubits. *Physical Review Applied*, **2020**, 13,	4.3	4
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36	Quantum teleportation of physical qubits into logical code spaces. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
35	Resource Reduction for Distributed Quantum Information Processing Using Quantum Multiplexed Photons. *Physical Review Letters*, **2020**, 124, 210503	7.4	3
34	Continuous-time quantum-walk spatial search on the Bollobás scale-free network. *Physical Review A*, **2020**, 101,	2.6	3
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32	Generation of entangled photons using an arrayed waveguide grating. *Journal of Optics (United Kingdom)*, **2017**, 19, 124005	1.7	3
31	Violations of Bell's inequalities in multiparticle states generated using parametric amplification. *Journal of the European Optical Society Part B: Quantum Optics*, **1994**, 6, 1-8		3
30	Topological pumping of quantum correlations. *Physical Review Research*, **2020**, 2,	3.9	3
29	Chimera Time-Crystalline Order in Quantum Spin Networks. *Physical Review Letters*, **2021**, 126, 120606	7.4	3
28	A simple low-latency real-time certifiable quantum random number generator. *Nature Communications*, **2021**, 12, 1056	17.4	3
27	Robust quantum sensing with strongly interacting probe systems. *Npj Quantum Information*, **2018**, 4,	8.6	3
26	One-way Transfer of Quantum States via Decoherence. *Journal of the Physical Society of Japan*, **2020**, 89, 044003	1.5	2
25	Some implications of superconducting quantum interference to the application of master equations in engineering quantum technologies. *Physical Review B*, **2016**, 94,	3.3	2
24	Enhancing a phase measurement by sequentially probing a solid-state system. *Nature Communications*, **2016**, 7, 11521	17.4	2
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21	Scalable quantum computation architecture using always-on Ising interactions via quantum feedforward. *Physical Review A*, **2015**, 91,	2.6	2
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18	Dissipative nonequilibrium synchronization of topological edge states via self-oscillation. *Physical Review B*, **2020**, 102,	3.3	2
17	Cloning of Quantum Entanglement. *Physical Review Letters*, **2020**, 125, 210502	7.4	2
16	Negative-temperature-state relaxation and reservoir-assisted quantum entanglement in double-spin-domain systems. *Physical Review A*, **2018**, 98,	2.6	2
15	Spin Amplification in an Inhomogeneous System. *Journal of the Physical Society of Japan*, **2015**, 84, 103001	1.5	1
14	Implementing nonprojective measurements via linear optics: An approach based on optimal quantum-state discrimination. *Physical Review A*, **2006**, 73,	2.6	1
13	Dephasing-induced growth of discrete time-crystalline order in spin networks. *Physical Review B*, **2021**, 104,	3.3	1
12	Measurement and State Preparation via Ion Trap Quantum Computing **1998**, 46, 391		1
11	Analysis of the spectroscopy of a hybrid system composed of a superconducting flux qubit and diamond NV(-) centers. *Journal of Physics Condensed Matter*, **2015**, 27, 345702	1.8	0
10	Scalable and effective multi-level entangled photon states: a promising tool to boost quantum technologies. *Nanophotonics*, **2021**, 10, 4447-4465	6.3	0
9	Decoding Quantum Error Correction Codes With Local Variation. *IEEE Transactions on Quantum Engineering*, **2020**, 1, 1-8	2.9	
8	Measurement and State Preparation via Ion Trap Quantum Computing **2004**, 85-93		
7	Maximally Entangled Mixed States and the Bell Inequality. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2001**, 56, 152-154	1.4	
6	Discrete phase measurements and the Bell inequality. *Journal of Optics B: Quantum and Semiclassical Optics*, **1999**, 1, 655-661		
5	Collective Effects in Hybrid Quantum Systems. *Quantum Science and Technology*, **2021**, 43-60	1.2	
4	Verifying Atom Entanglement Schemes by Testing Bell's Inequality. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2001**, 56, 27-34	1.4	

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2	Optical circulators reach the quantum level. *Science*, **2016**, 354, 1532	33.3
1	Perspective on witnessing entanglement in hybrid quantum systems. *Applied Physics Letters*, **2021**, 119, 110501	3.4