

# Daniel A Lidar

## List of Publications by Year in descending order

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230  
papers

16,987  
citations

14124

69  
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18944

123  
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239  
all docs

239  
docs citations

239  
times ranked

7681  
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of driver genes for critical forms of COVID-19 in a deeply phenotyped young patient cohort. <i>Science Translational Medicine</i> , 2022, 14, eabj7521.	5.8	71
2	3-regular three-XORSAT planted solutions benchmark of classical and quantum heuristic optimizers. <i>Quantum Science and Technology</i> , 2022, 7, 025008.	2.6	18
3	Standard quantum annealing outperforms adiabatic reverse annealing with decoherence. <i>Physical Review A</i> , 2022, 105, .	1.0	9
4	Customized Quantum Annealing Schedules. <i>Physical Review Applied</i> , 2022, 17, .	1.5	5
5	Predicting Non-Markovian Superconducting-Qubit Dynamics from Tomographic Reconstruction. <i>Physical Review Applied</i> , 2022, 17, .	1.5	8
6	Hamiltonian open quantum system toolkit. <i>Communications Physics</i> , 2022, 5, .	2.0	10
7	Breakdown of the Weak-Coupling Limit in Quantum Annealing. <i>Physical Review Applied</i> , 2022, 17, .	1.5	4
8	Anneal-path correction in flux qubits. <i>Npj Quantum Information</i> , 2021, 7, .	2.8	7
9	Prospects for quantum enhancement with diabatic quantum annealing. <i>Nature Reviews Physics</i> , 2021, 3, 466-489.	11.9	59
10	Quantum processor-inspired machine learning in the biomedical sciences. <i>Patterns</i> , 2021, 2, 100246.	3.1	16
11	Low overhead universality and quantum supremacy using only Z control. <i>Physical Review Research</i> , 2021, 3, .	1.3	0
12	Phase transitions in the frustrated Ising ladder with stoquastic and nonstoquastic catalysts. <i>Physical Review Research</i> , 2021, 3, .	1.3	3
13	Charged particle tracking with quantum annealing optimization. <i>Quantum Machine Intelligence</i> , 2021, 3, 1.	2.7	10
14	Optimal Control for Quantum Optimization of Closed and Open Systems. <i>Physical Review Applied</i> , 2021, 16, .	1.5	12
15	Why and When Pausing is Beneficial in Quantum Annealing. <i>Physical Review Applied</i> , 2020, 14, .	1.5	27
16	Quantum adiabatic machine learning by zooming into a region of the energy surface. <i>Physical Review A</i> , 2020, 102, .	1.0	15
17	Limitations of error corrected quantum annealing in improving the performance of Boltzmann machines. <i>Quantum Science and Technology</i> , 2020, 5, 045010.	2.6	19
18	Reverse quantum annealing of the $p$ -spin model with relaxation. <i>Physical Review A</i> , 2020, 101, .	1.0	39

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19	Probing the universality of topological defect formation in a quantum annealer: Kibble-Zurek mechanism and beyond. Physical Review Research, 2020, 2, .	1.3	70
20	Fast, Lifetime-Preserving Readout for High-Coherence Quantum Annealers. PRX Quantum, 2020, 1, .	3.5	6
21	Fast, Lifetime-Preserving Readout for High-Coherence Quantum Annealers. PRX Quantum, 2020, 1, .	3.5	8
22	A double-slit proposal for quantum annealing. Npj Quantum Information, 2019, 5, .	2.8	13
23	Nested quantum annealing correction at finite temperature: p -spin models. Physical Review A, 2019, 99, .	1.0	14
24	Arbitrary-time error suppression for Markovian adiabatic quantum computing using stabilizer subspace codes. Physical Review A, 2019, 100, .	1.0	5
25	Sensitivity of quantum speedup by quantum annealing to a noisy oracle. Physical Review A, 2019, 99, .	1.0	7
26	On the computational complexity of curing non-stoquastic Hamiltonians. Nature Communications, 2019, 10, 1571.	5.8	38
27	Dynamics of reverse annealing for the fully connected $p$ -spin model. Physical Review A, 2019, 100, .	1.0	41
28	Analog errors in quantum annealing: doom and hope. Npj Quantum Information, 2019, 5, .	2.8	47
29	Quantum annealing versus classical machine learning applied to a simplified computational biology problem. Npj Quantum Information, 2018, 4, .	2.8	126
30	Quantum trajectories for time-dependent adiabatic master equations. Physical Review A, 2018, 97, .	1.0	15
31	Adiabatic quantum computation. Reviews of Modern Physics, 2018, 90, .	16.4	743
32	Scalable effective-temperature reduction for quantum annealers via nested quantum annealing correction. Physical Review A, 2018, 97, .	1.0	18
33	Exploring More-Coherent Quantum Annealing. , 2018, , .		11
34	Demonstration of Fidelity Improvement Using Dynamical Decoupling with Superconducting Qubits. Physical Review Letters, 2018, 121, 220502.	2.9	110
35	Non-Markovianity of the post-Markovian master equation. Physical Review A, 2018, 98, .	1.0	6
36	Quantum annealing of the p -spin model under inhomogeneous transverse field driving. Physical Review A, 2018, 98, .	1.0	42

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37	Test-driving 1000 qubits. Quantum Science and Technology, 2018, 3, 030501.	2.6	29
38	Demonstration of a Scaling Advantage for a Quantum Annealer over Simulated Annealing. Physical Review X, 2018, 8, .	2.8	108
39	Finite temperature quantum annealing solving exponentially small gap problem with non-monotonic success probability. Nature Communications, 2018, 9, 2917.	5.8	35
40	Reverse annealing for the fully connected $p$ -spin model. Physical Review A, 2018, 98, .	1.0	65
41	Error reduction in quantum annealing using boundary cancellation: Only the end matters. Physical Review A, 2018, 98, .	1.0	12
42	Evolution prediction from tomography. Quantum Information Processing, 2017, 16, 1.	1.0	1
43	Error suppression for Hamiltonian quantum computing in Markovian environments. Physical Review A, 2017, 95, .	1.0	13
44	Solving a Higgs optimization problem with quantum annealing for machine learning. Nature, 2017, 550, 375-379.	13.7	143
45	Non-stoquastic Hamiltonians in quantum annealing via geometric phases. Npj Quantum Information, 2017, 3, .	2.8	31
46	Relaxation versus adiabatic quantum steady-state preparation. Physical Review A, 2017, 95, .	1.0	21
47	Quasiadiabatic Grover search via the Wentzel-Kramers-Brillouin approximation. Physical Review A, 2017, 96, .	1.0	1
48	Quantum-annealing correction at finite temperature: Ferromagnetic $p$ -spin models. Physical Review A, 2017, 95, .	1.0	32
49	Suppression of effective noise in Hamiltonian simulations. Physical Review A, 2017, 96, .	1.0	1
50	Error Suppression for Hamiltonian-Based Quantum Computation Using Subsystem Codes. Physical Review Letters, 2017, 118, 030504.	2.9	26
51	Simulated-quantum-annealing comparison between all-to-all connectivity schemes. Physical Review A, 2016, 94, .	1.0	22
52	Adiabaticity in open quantum systems. Physical Review A, 2016, 93, .	1.0	68
53	Mean Field Analysis of Quantum Annealing Correction. Physical Review Letters, 2016, 116, 220501.	2.9	28
54	Eigenstate tracking in open quantum systems. Physical Review A, 2016, 94, .	1.0	22

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55	Tunneling and Speedup in Quantum Optimization for Permutation-Symmetric Problems. Physical Review X, 2016, 6, .	2.8	53
56	Nested quantum annealing correction. Npj Quantum Information, 2016, 2, .	2.8	39
57	Optimally Stopped Optimization. Physical Review Applied, 2016, 6, .	1.5	19
58	Performance of two different quantum annealing correction codes. Quantum Information Processing, 2016, 15, 609-636.	1.0	30
59	Beyond complete positivity. Quantum Information Processing, 2016, 15, 1349-1360.	1.0	32
60	A general framework for complete positivity. Quantum Information Processing, 2016, 15, 465-494.	1.0	41
61	A general framework for complete positivity. , 2016, 15, 465.		1
62	Decoherence in adiabatic quantum computation. Physical Review A, 2015, 91, .	1.0	104
63	Quantum annealing correction with minor embedding. Physical Review A, 2015, 92, .	1.0	67
64	Probing for quantum speedup in spin-glass problems with planted solutions. Physical Review A, 2015, 92, .	1.0	117
65	Reexamination of the evidence for entanglement in a quantum annealer. Physical Review A, 2015, 92, .	1.0	27
66	Quantum Speed Limits for Leakage and Decoherence. Physical Review Letters, 2015, 115, 210402.	2.9	57
67	Reexamining classical and quantum models for the D-Wave One processor. European Physical Journal: Special Topics, 2015, 224, 111-129.	1.2	77
68	Consistency tests of classical and quantum models for a quantum annealer. Physical Review A, 2015, 91, .	1.0	97
69	Quantum annealing correction for random Ising problems. Physical Review A, 2015, 91, .	1.0	74
70	Quantum Error Suppression with Commuting Hamiltonians: Two Local is Too Local. Physical Review Letters, 2014, 113, 260504.	2.9	16
71	Max 2-SAT with up to 108 qubits. New Journal of Physics, 2014, 16, 045006.	1.2	46
72	Evidence for quantum annealing with more than one hundred qubits. Nature Physics, 2014, 10, 218-224.	6.5	539

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73	Error-corrected quantum annealing with hundreds of qubits. Nature Communications, 2014, 5, 3243.	5.8	139
74	Defining and detecting quantum speedup. Science, 2014, 345, 420-424.	6.0	405
75	Optimized dynamical decoupling via genetic algorithms. Physical Review A, 2013, 88, .	1.0	20
76	Quantum adiabatic machine learning. Quantum Information Processing, 2013, 12, 2027-2070.	1.0	95
77	Experimental signature of programmable quantum annealing. Nature Communications, 2013, 4, 2067.	5.8	223
78	Analysis of the quantum Zeno effect for quantum control and computation. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 075306.	0.7	21
79	Fluctuation theorems for quantum processes. Physical Review E, 2013, 88, 032146.	0.8	95
80	Adiabatic quantum optimization with the wrong Hamiltonian. Physical Review A, 2013, 88, .	1.0	41
81	Coarse graining can beat the rotating-wave approximation in quantum Markovian master equations. Physical Review A, 2013, 88, .	1.0	48
82	Introduction to decoherence-free subspaces and noiseless subsystems. , 2013, , 78-104.		1
83	No-go theorem for passive single-rail linear optical quantum computing. Scientific Reports, 2013, 3, 1394.	1.6	11
84	Optimally combining dynamical decoupling and quantum error correction. Scientific Reports, 2013, 3, 1530.	1.6	26
85	Universality proof and analysis of generalized nested Uhrig dynamical decoupling. Journal of Mathematical Physics, 2012, 53, 122207.	0.5	7
86	Zeno Effect for Quantum Computation and Control. Physical Review Letters, 2012, 108, 080501.	2.9	95
87	Quantum adiabatic Markovian master equations. New Journal of Physics, 2012, 14, 123016.	1.2	202
88	High-fidelity adiabatic quantum computation via dynamical decoupling. Physical Review A, 2012, 86, .	1.0	28
89	Decoherence-protected quantum gates for a hybrid solid-state spin register. Nature, 2012, 484, 82-86.	13.7	320
90	Adiabatic Quantum Algorithm for Search Engine Ranking. Physical Review Letters, 2012, 108, 230506.	2.9	60

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91	Rigorous performance bounds for quadratic and nested dynamical decoupling. Physical Review A, 2011, 84, .	1.0	5
92	Quadratic dynamical decoupling: Universality proof and error analysis. Physical Review A, 2011, 84, .	1.0	33
93	Quadratic dynamical decoupling with nonuniform error suppression. Physical Review A, 2011, 84, .	1.0	14
94	Combining dynamical decoupling with fault-tolerant quantum computation. Physical Review A, 2011, 84, .	1.0	74
95	High fidelity quantum memory via dynamical decoupling: theory and experiment. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 154003.	0.6	27
96	Channel-Optimized Quantum Error Correction. IEEE Transactions on Information Theory, 2010, 56, 1461-1473.	1.5	21
97	Accuracy versus run time in an adiabatic quantum search. Physical Review A, 2010, 82, .	1.0	57
98	Optimized entanglement-assisted quantum error correction. Physical Review A, 2010, 82, .	1.0	7
99	Intrinsic geometry of quantum adiabatic evolution and quantum phase transitions. Physical Review A, 2010, 82, .	1.0	67
100	Rigorous bounds for optimal dynamical decoupling. Physical Review A, 2010, 82, .	1.0	29
101	Channel capacities of an exactly solvable spin-star system. Physical Review A, 2010, 81, .	1.0	25
102	Optimal control landscape for the generation of unitary transformations with constrained dynamics. Physical Review A, 2010, 81, .	1.0	14
103	Near-Optimal Dynamical Decoupling of a Qubit. Physical Review Letters, 2010, 104, 130501.	2.9	87
104	Classical Ising model test for quantum circuits. New Journal of Physics, 2010, 12, 075026.	1.2	13
105	High Fidelity Quantum Gates via Dynamical Decoupling. Physical Review Letters, 2010, 105, 230503.	2.9	118
106	Arbitrarily Accurate Dynamical Control in Open Quantum Systems. Physical Review Letters, 2010, 104, 090501.	2.9	144
107	Entanglement and area law with a fractal boundary in a topologically ordered phase. Physical Review A, 2010, 81, .	1.0	3
108	Scheme for fault-tolerant holonomic computation on stabilizer codes. Physical Review A, 2009, 80, .	1.0	16

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109	Maps for general open quantum systems and a theory of linear quantum error correction. <i>Physical Review A</i> , 2009, 80, .	1.0	39
110	Quantum error correction via convex optimization. <i>Quantum Information Processing</i> , 2009, 8, 443-459.	1.0	34
111	Fault-Tolerant Holonomic Quantum Computation. <i>Physical Review Letters</i> , 2009, 102, 070502.	2.9	61
112	Quantum Adiabatic Brachistochrone. <i>Physical Review Letters</i> , 2009, 103, 080502.	2.9	126
113	Adiabatic approximation with exponential accuracy for many-body systems and quantum computation. <i>Journal of Mathematical Physics</i> , 2009, 50, .	0.5	135
114	Vanishing Quantum Discord is Necessary and Sufficient for Completely Positive Maps. <i>Physical Review Letters</i> , 2009, 102, 100402.	2.9	283
115	On the Exact Evaluation of Certain Instances of the Potts Partition Function by Quantum Computers. <i>Communications in Mathematical Physics</i> , 2008, 279, 735-768.	1.0	26
116	Entanglement, fidelity, and topological entropy in a quantum phase transition to topological order. <i>Physical Review B</i> , 2008, 77, .	1.1	95
117	Quantum-process tomography: Resource analysis of different strategies. <i>Physical Review A</i> , 2008, 77, .	1.0	274
118	Distance bounds on quantum dynamics. <i>Physical Review A</i> , 2008, 78, .	1.0	47
119	Towards Fault Tolerant Adiabatic Quantum Computation. <i>Physical Review Letters</i> , 2008, 100, 160506.	2.9	102
120	Encoding one logical qubit into six physical qubits. <i>Physical Review A</i> , 2008, 78, .	1.0	25
121	Adiabatic Preparation of Topological Order. <i>Physical Review Letters</i> , 2008, 100, 030502.	2.9	88
122	Optimal Dynamical Decoherence Control of a Qubit. <i>Physical Review Letters</i> , 2008, 101, 010403.	2.9	155
123	Spin density matrix of a two-electron system. II. Application to a system of two quantum dots. <i>Physical Review B</i> , 2008, 77, .	1.1	8
124	Publisher's Note: Towards Fault Tolerant Adiabatic Quantum Computation [ <i>Phys. Rev. Lett.</i> 100, 160506 (2008)]. <i>Physical Review Letters</i> , 2008, 100, .	2.9	1
125	Bang-bang control of a qubit coupled to a quantum critical spin bath. <i>Physical Review A</i> , 2008, 77, .	1.0	39
126	Operator quantum error correction for continuous dynamics. <i>Physical Review A</i> , 2008, 78, .	1.0	11



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127	Robust Quantum Error Correction via Convex Optimization. <i>Physical Review Letters</i> , 2008, 100, 020502.	2.9	48
128	Rigorous bounds on the performance of a hybrid dynamical-decoupling quantum-computing scheme. <i>Physical Review A</i> , 2008, 78, .	1.0	36
129	Spin density matrix of a two-electron system. I. General theory and exact master equations. <i>Physical Review B</i> , 2008, 77, .	1.1	1
130	Optimal control of quantum gates and suppression of decoherence in a system of interacting two-level particles. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007, 40, S103-S125.	0.6	92
131	Performance of deterministic dynamical decoupling schemes: Concatenated and periodic pulse sequences. <i>Physical Review A</i> , 2007, 75, .	1.0	164
132	Direct characterization of quantum dynamics: General theory. <i>Physical Review A</i> , 2007, 75, .	1.0	46
133	Fidelity of optimally controlled quantum gates with randomly coupled multiparticle environments. <i>Journal of Modern Optics</i> , 2007, 54, 2339-2349.	0.6	24
134	Simple Proof of Equivalence between Adiabatic Quantum Computation and the Circuit Model. <i>Physical Review Letters</i> , 2007, 99, 070502.	2.9	161
135	Efficient Multiqubit Entanglement via a Spin Bus. <i>Physical Review Letters</i> , 2007, 98, 230503.	2.9	72
136	Decoherence-induced geometric phase in a multilevel atomic system. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007, 40, S127-S142.	0.6	13
137	How to control decoherence and entanglement in quantum complex systems?. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007, 40, .	0.6	1
138	Non-Markovian dynamics of a qubit coupled to an Ising spin bath. <i>Physical Review A</i> , 2007, 76, .	1.0	51
139	Abelian and non-Abelian geometric phases in adiabatic open quantum systems. <i>Physical Review A</i> , 2006, 73, .	1.0	71
140	Linking entanglement and quantum phase transitions via density-functional theory. <i>Physical Review A</i> , 2006, 74, .	1.0	97
141	Quantum Malware. <i>Quantum Information Processing</i> , 2006, 5, 69-81.	1.0	4
142	Few-body spin couplings and their implications for universal quantum computation. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S721-S744.	0.7	10
143	Encoding a qubit into multilevel subspaces. <i>New Journal of Physics</i> , 2006, 8, 35-35.	1.2	30
144	Quantum logic gates in iodine vapor using time-resolved frequency resolved coherent anti-Stokes Raman scattering: a theoretical study. <i>Molecular Physics</i> , 2006, 104, 1249-1266.	0.8	12

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145	Internal consistency of fault-tolerant quantum error correction in light of rigorous derivations of the quantum Markovian limit. <i>Physical Review A</i> , 2006, 73, .	1.0	113
146	Robust transmission of non-Gaussian entanglement over optical fibers. <i>Physical Review A</i> , 2006, 74, .	1.0	16
147	Direct Characterization of Quantum Dynamics. <i>Physical Review Letters</i> , 2006, 97, 170501.	2.9	115
148	Robust dynamical decoupling: feedback-free error correction. , 2005, , .		0
149	Against the odds of imperfection. <i>Nature Physics</i> , 2005, 1, 145-146.	6.5	0
150	Theory of initialization-free decoherence-free subspaces and subsystems. <i>Physical Review A</i> , 2005, 72, .	1.0	80
151	Control of decoherence: Analysis and comparison of three different strategies. <i>Physical Review A</i> , 2005, 71, .	1.0	181
152	Adiabatic Quantum Computation in Open Systems. <i>Physical Review Letters</i> , 2005, 95, 250503.	2.9	175
153	Robustness of multiqubit entanglement in the independent decoherence model. <i>Physical Review A</i> , 2005, 72, .	1.0	35
154	Universal leakage elimination. <i>Physical Review A</i> , 2005, 71, .	1.0	51
155	Fault-Tolerant Quantum Computation via Exchange Interactions. <i>Physical Review Letters</i> , 2005, 94, 040507.	2.9	29
156	Fault-Tolerant Quantum Dynamical Decoupling. <i>Physical Review Letters</i> , 2005, 95, 180501.	2.9	420
157	ROBUST DYNAMICAL DECOUPLING: FEEDBACK-FREE ERROR CORRECTION. <i>International Journal of Quantum Information</i> , 2005, 03, 41-52.	0.6	0
158	Adiabatic approximation in open quantum systems. <i>Physical Review A</i> , 2005, 71, .	1.0	157
159	Holonomic Quantum Computation in Decoherence-Free Subspaces. <i>Physical Review Letters</i> , 2005, 95, 130501.	2.9	119
160	Entanglement observables and witnesses for interacting quantum spin systems. <i>Physical Review A</i> , 2005, 72, .	1.0	66
161	Completely positive post-Markovian master equation via a measurement approach. <i>Physical Review A</i> , 2005, 71, .	1.0	145
162	ROBUST DYNAMICAL DECOUPLING: FEEDBACK-FREE ERROR CORRECTION. , 2005, , .		0

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163	Overcoming quantum noise in optical fibers. <i>Physical Review A</i> , 2004, 70, .	1.0	19
164	Exchange interaction between three and four coupled quantum dots: Theory and applications to quantum computing. <i>Physical Review B</i> , 2004, 70, .	1.1	30
165	One-Spin Quantum Logic Gates from Exchange Interactions and a Global Magnetic Field. <i>Physical Review Letters</i> , 2004, 93, 030501.	2.9	31
166	Entangling capacities of noisy two-qubit Hamiltonians. <i>Physical Review A</i> , 2004, 70, .	1.0	35
167	Dynamical decoupling using slow pulses: Efficient suppression of $1/f$ noise. <i>Physical Review A</i> , 2004, 69, .	1.0	72
168	Purity and state fidelity of quantum channels. <i>Physical Review A</i> , 2004, 70, .	1.0	52
169	Long-range entanglement generation via frequent measurements. <i>Physical Review A</i> , 2004, 70, .	1.0	33
170	Consistency of the Adiabatic Theorem. <i>Quantum Information Processing</i> , 2004, 3, 331-349.	1.0	92
171	Overview of quantum error prevention and leakage elimination. <i>Journal of Modern Optics</i> , 2004, 51, 2449-2460.	0.6	40
172	Quantum Phase Transitions and Bipartite Entanglement. <i>Physical Review Letters</i> , 2004, 93, 250404.	2.9	423
173	Three- and Four-Body Interactions in Spin-Based Quantum Computers. <i>Physical Review Letters</i> , 2004, 92, 077903.	2.9	31
174	Unification of dynamical decoupling and the quantum Zeno effect. <i>Physical Review A</i> , 2004, 69, .	1.0	274
175	Exponentially localized magnetic fields for single-spin quantum logic gates. <i>Journal of Applied Physics</i> , 2004, 96, 754-758.	1.1	24
176	Quantum Tensor Product Structures are Observable Induced. <i>Physical Review Letters</i> , 2004, 92, 060402.	2.9	196
177	On the quantum computational complexity of the Ising spin glass partition function and of knot invariants. <i>New Journal of Physics</i> , 2004, 6, 167-167.	1.2	25
178	Magnetic Resonance Realization of Decoherence-Free Quantum Computation. <i>Physical Review Letters</i> , 2003, 91, 217904.	2.9	92
179	Universal quantum computation using exchange interactions and measurements of single- and two-spin observables. <i>Physical Review A</i> , 2003, 67, .	1.0	13
180	Quantum computing in the presence of spontaneous emission by a combined dynamical decoupling and quantum-error-correction strategy. <i>Physical Review A</i> , 2003, 68, .	1.0	25

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181	Dressed Qubits. Physical Review Letters, 2003, 91, 097904.	2.9	45
182	Encoded recoupling and decoupling: An alternative to quantum error-correcting codes applied to trapped-ion quantum computation. Physical Review A, 2003, 67, .	1.0	33
183	Wuet al.Reply:. Physical Review Letters, 2003, 90, .	2.9	6
184	Decoherence-Free Subspaces and Subsystems. Lecture Notes in Physics, 2003, , 83-120.	0.3	162
185	Empirical determination of dynamical decoupling operations. Physical Review A, 2003, 67, .	1.0	48
186	Comment on "Conservative Quantum Computing". Physical Review Letters, 2003, 91, 089801; discussion 089802.	2.9	9
187	Combined error correction techniques for quantum computing architectures. Journal of Modern Optics, 2003, 50, 1285-1297.	0.6	15
188	Quantum computers and decoherence: exorcising the demon from the machine. , 2003, 5115, 256.		1
189	Comment on "Quantum waveguide array generator for performing Fourier transforms: Alternate route to quantum computing"[Appl. Phys. Lett. 79, 2823 (2001)]. Applied Physics Letters, 2002, 80, 2419-2419.	1.5	3
190	Publisher's Note: Polynomial-Time Simulation of Pairing Models on a Quantum Computer [Phys. Rev. Lett.89, 057904 (2002)]. Physical Review Letters, 2002, 89, .	2.9	1
191	Power of anisotropic exchange interactions: Universality and efficient codes for quantum computing. Physical Review A, 2002, 65, .	1.0	31
192	Qubits as parafermions. Journal of Mathematical Physics, 2002, 43, 4506-4525.	0.5	47
193	Universal quantum logic from Zeeman and anisotropic exchange interactions. Physical Review A, 2002, 66, .	1.0	40
194	Comprehensive Encoding and Decoupling Solution to Problems of Decoherence and Design in Solid-State Quantum Computing. Physical Review Letters, 2002, 89, 047901.	2.9	79
195	Polynomial-Time Simulation of Pairing Models on a Quantum Computer. Physical Review Letters, 2002, 89, 057904.	2.9	78
196	Creating Decoherence-Free Subspaces Using Strong and Fast Pulses. Physical Review Letters, 2002, 88, 207902.	2.9	134
197	Universal Fault-Tolerant Quantum Computation in the Presence of Spontaneous Emission and Collective Dephasing. Physical Review Letters, 2002, 89, 197904.	2.9	23
198	Efficient Universal Leakage Elimination for Physical and Encoded Qubits. Physical Review Letters, 2002, 89, 127901.	2.9	83

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199	An implementation of the Deutsch-Jozsa algorithm on molecular vibronic coherences through four-wave mixing: a theoretical study. <i>Chemical Physics Letters</i> , 2002, 360, 459-465.	1.2	29
200	Bang-Bang Operations from a Geometric Perspective. <i>Quantum Information Processing</i> , 2002, 1, 19-34.	1.0	46
201	Quantum Codes for Simplifying Design and Suppressing Decoherence in Superconducting Phase-Qubits. <i>Quantum Information Processing</i> , 2002, 1, 155-182.	1.0	12
202	Theory of decoherence-free fault-tolerant universal quantum computation. <i>Physical Review A</i> , 2001, 63, .	1.0	420
203	Reducing Constraints on Quantum Computer Design by Encoded Selective Recoupling. <i>Physical Review Letters</i> , 2001, 88, 017905.	2.9	96
204	From completely positive maps to the quantum Markovian semigroup master equation. <i>Chemical Physics</i> , 2001, 268, 35-53.	0.9	104
205	Decoherence-free subspaces for multiple-qubit errors. I. Characterization. <i>Physical Review A</i> , 2001, 63, .	1.0	74
206	Quantum computing with quantum dots on quantum linear supports. <i>Physical Review A</i> , 2001, 65, .	1.0	33
207	Decoherence-free subspaces for multiple-qubit errors. II. Universal, fault-tolerant quantum computation. <i>Physical Review A</i> , 2001, 63, .	1.0	51
208	Analysis of generalized Grover quantum search algorithms using recursion equations. <i>Physical Review A</i> , 2000, 63, .	1.0	54
209	Protecting quantum information encoded in decoherence-free states against exchange errors. <i>Physical Review A</i> , 2000, 61, .	1.0	50
210	Universal Fault-Tolerant Quantum Computation on Decoherence-Free Subspaces. <i>Physical Review Letters</i> , 2000, 85, 1758-1761.	2.9	278
211	Robustness of decoherence-free subspaces for quantum computation. <i>Physical Review A</i> , 1999, 60, 1944-1955.	1.0	117
212	Fractal analysis of protein potential energy landscapes. <i>Physical Review E</i> , 1999, 59, 2231-2243.	0.8	25
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