

John A Smolin

List of Publications by Year in descending order

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57
papers

17,332
citations

81743

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docs citations

57
times ranked

6159
citing authors

#	ARTICLE	IF	CITATIONS
1	Hardware-efficient random circuits to classify noise in a multiqubit system. <i>Physical Review A</i> , 2021, 104, .	1.0	2
2	Laser-annealing Josephson junctions for yielding scaled-up superconducting quantum processors. <i>Npj Quantum Information</i> , 2021, 7, .	2.8	80
3	Three-Qubit Randomized Benchmarking. <i>Physical Review Letters</i> , 2019, 122, 200502.	2.9	96
4	Scalable randomised benchmarking of non-Clifford gates. <i>Npj Quantum Information</i> , 2016, 2, .	2.8	65
5	How to efficiently select an arbitrary Clifford group element. <i>Journal of Mathematical Physics</i> , 2014, 55, .	0.5	36
6	Bound Entangled States with a Private Key and their Classical Counterpart. <i>Physical Review Letters</i> , 2014, 112, 110502.	2.9	16
7	Maximal Privacy without Coherence. <i>Physical Review Letters</i> , 2014, 113, 030502.	2.9	10
8	Implementing a strand of a scalable fault-tolerant quantum computing fabric. <i>Nature Communications</i> , 2014, 5, 4015.	5.8	234
9	An exactly solvable model for quantum communications. <i>Nature</i> , 2013, 504, 263-267.	13.7	4
10	Process verification of two-qubit quantum gates by randomized benchmarking. <i>Physical Review A</i> , 2013, 87, .	1.0	134
11	Self-consistent quantum process tomography. <i>Physical Review A</i> , 2013, 87, .	1.0	193
12	Detecting Incapacity of a Quantum Channel. <i>Physical Review Letters</i> , 2012, 108, 230507.	2.9	14
13	Characterization of Addressability by Simultaneous Randomized Benchmarking. <i>Physical Review Letters</i> , 2012, 109, 240504.	2.9	164
14	Universal Quantum Gate Set Approaching Fault-Tolerant Thresholds with Superconducting Qubits. <i>Physical Review Letters</i> , 2012, 109, 060501.	2.9	251
15	Superconducting qubit in a waveguide cavity with a coherence time approaching 0.1 ms. <i>Physical Review B</i> , 2012, 86, .	1.1	441
16	Entanglement of Two Superconducting Qubits in a Waveguide Cavity via Monochromatic Two-Photon Excitation. <i>Physical Review Letters</i> , 2012, 109, 240505.	2.9	88
17	Quantum communication with Gaussian channels of zero quantum capacity. <i>Nature Photonics</i> , 2011, 5, 624-627.	15.6	67
18	High Performance Single-Error-Correcting Quantum Codes for Amplitude Damping. <i>IEEE Transactions on Information Theory</i> , 2011, 57, 7180-7188.	1.5	27

#	ARTICLE	IF	CITATIONS
19	Unextendible maximally entangled bases. <i>Physical Review A</i> , 2011, 84, .	1.0	42
20	Simple All-Microwave Entangling Gate for Fixed-Frequency Superconducting Qubits. <i>Physical Review Letters</i> , 2011, 107, 080502.	2.9	308
21	Extensive Nonadditivity of Privacy. <i>Physical Review Letters</i> , 2009, 103, 120503.	2.9	40
22	Can Nonprivate Channels Transmit Quantum Information?. <i>Physical Review Letters</i> , 2009, 102, 010501.	2.9	15
23	Codeword Stabilized Quantum Codes. <i>IEEE Transactions on Information Theory</i> , 2009, 55, 433-438.	1.5	79
24	The Quantum Capacity With Symmetric Side Channels. <i>IEEE Transactions on Information Theory</i> , 2008, 54, 4208-4217.	1.5	68
25	Codeword stabilized quantum codes. , 2008, , .		6
26	Structured Codes Improve the Bennett-Brassard-84 Quantum Key Rate. <i>Physical Review Letters</i> , 2008, 100, 170502.	2.9	59
27	Degenerate Quantum Codes for Pauli Channels. <i>Physical Review Letters</i> , 2007, 98, 030501.	2.9	97
28	Simple Family of Nonadditive Quantum Codes. <i>Physical Review Letters</i> , 2007, 99, 130505.	2.9	31
29	Inequalities and Separations Among Assisted Capacities of Quantum Channels. <i>Physical Review Letters</i> , 2006, 96, 150502.	2.9	26
30	Entanglement of Superpositions. <i>Physical Review Letters</i> , 2006, 97, 100502.	2.9	72
31	Entanglement of assistance and multipartite state distillation. <i>Physical Review A</i> , 2005, 72, .	1.0	113
32	Unextendible Product Bases, Uncompletable Product Bases and Bound Entanglement. <i>Communications in Mathematical Physics</i> , 2003, 238, 379-410.	1.0	263
33	Rank two bipartite bound entangled states do not exist. <i>Theoretical Computer Science</i> , 2003, 292, 589-596.	0.5	53
34	Superactivation of Bound Entanglement. <i>Physical Review Letters</i> , 2003, 90, 107901.	2.9	84
35	Multipartite entanglement gambling: The power of asymptotic state transformations assisted by a sublinear amount of quantum communication. <i>Physical Review A</i> , 2003, 68, .	1.0	5
36	Four-party unlockable bound entangled state. <i>Physical Review A</i> , 2001, 63, .	1.0	149

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37	Nonadditivity of Bipartite Distillable Entanglement Follows from a Conjecture on Bound Entangled Werner States. <i>Physical Review Letters</i> , 2001, 86, 2681-2684.	2.9	89
38	Remote State Preparation. <i>Physical Review Letters</i> , 2001, 87, 077902.	2.9	699
39	Evidence for bound entangled states with negative partial transpose. <i>Physical Review A</i> , 2000, 61, .	1.0	171
40	Exact and asymptotic measures of multipartite pure-state entanglement. <i>Physical Review A</i> , 2000, 63, .	1.0	323
41	Simulating quantum operations with mixed environments. <i>Physical Review A</i> , 1999, 60, 881-885.	1.0	28
42	Entanglement-Assisted Classical Capacity of Noisy Quantum Channels. <i>Physical Review Letters</i> , 1999, 83, 3081-3084.	2.9	439
43	Physical optimization of quantum error correction circuits. <i>Physical Review B</i> , 1999, 60, 11404-11416.	1.1	88
44	Unextendible Product Bases and Bound Entanglement. <i>Physical Review Letters</i> , 1999, 82, 5385-5388.	2.9	569
45	Quantum nonlocality without entanglement. <i>Physical Review A</i> , 1999, 59, 1070-1091.	1.0	829
46	Quantum-channel capacity of very noisy channels. <i>Physical Review A</i> , 1998, 57, 830-839.	1.0	216
47	Optimal universal and state-dependent quantum cloning. <i>Physical Review A</i> , 1998, 57, 2368-2378.	1.0	468
48	Quantum capacity is properly defined without encodings. <i>Physical Review A</i> , 1998, 58, 3496-3501.	1.0	25
49	Single quantum querying of a database. <i>Physical Review A</i> , 1998, 58, 1822-1826.	1.0	39
50	Purification of Noisy Entanglement and Faithful Teleportation via Noisy Channels[<i>Phys. Rev. Lett.</i> 76, 722 (1996)]. <i>Physical Review Letters</i> , 1997, 78, 2031-2031.	2.9	57
51	Perfect quantum-error-correction coding in 24 laser pulses. <i>Physical Review A</i> , 1997, 55, 945-950.	1.0	23
52	Capacities of Quantum Erasure Channels. <i>Physical Review Letters</i> , 1997, 78, 3217-3220.	2.9	297
53	Mixed-state entanglement and quantum error correction. <i>Physical Review A</i> , 1996, 54, 3824-3851.	1.0	4,032
54	Purification of Noisy Entanglement and Faithful Teleportation via Noisy Channels. <i>Physical Review Letters</i> , 1996, 76, 722-725.	2.9	2,318

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55	Parity bit in quantum cryptography. Physical Review A, 1996, 54, 2675-2684.	1.0	26
56	Five two-bit quantum gates are sufficient to implement the quantum Fredkin gate. Physical Review A, 1996, 53, 2855-2856.	1.0	206
57	Elementary gates for quantum computation. Physical Review A, 1995, 52, 3457-3467.	1.0	2,958