

John A Smolin

List of Publications by Year in descending order

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57
papers

17,332
citations

81743

39
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149479

56
g-index

57
all docs

57
docs citations

57
times ranked

6159
citing authors

#	ARTICLE	IF	CITATIONS
1	Mixed-state entanglement and quantum error correction. Physical Review A, 1996, 54, 3824-3851.	1.0	4,032
2	Elementary gates for quantum computation. Physical Review A, 1995, 52, 3457-3467.	1.0	2,958
3	Purification of Noisy Entanglement and Faithful Teleportation via Noisy Channels. Physical Review Letters, 1996, 76, 722-725.	2.9	2,318
4	Quantum nonlocality without entanglement. Physical Review A, 1999, 59, 1070-1091.	1.0	829
5	Remote State Preparation. Physical Review Letters, 2001, 87, 077902.	2.9	699
6	Unextendible Product Bases and Bound Entanglement. Physical Review Letters, 1999, 82, 5385-5388.	2.9	569
7	Optimal universal and state-dependent quantum cloning. Physical Review A, 1998, 57, 2368-2378.	1.0	468
8	Superconducting qubit in a waveguide cavity with a coherence time approaching 0.1 ms. Physical Review B, 2012, 86, .	1.1	441
9	Entanglement-Assisted Classical Capacity of Noisy Quantum Channels. Physical Review Letters, 1999, 83, 3081-3084.	2.9	439
10	Exact and asymptotic measures of multipartite pure-state entanglement. Physical Review A, 2000, 63, .	1.0	323
11	Simple All-Microwave Entangling Gate for Fixed-Frequency Superconducting Qubits. Physical Review Letters, 2011, 107, 080502.	2.9	308
12	Capacities of Quantum Erasure Channels. Physical Review Letters, 1997, 78, 3217-3220.	2.9	297
13	Unextendible Product Bases, Uncompletable Product Bases and Bound Entanglement. Communications in Mathematical Physics, 2003, 238, 379-410.	1.0	263
14	Universal Quantum Gate Set Approaching Fault-Tolerant Thresholds with Superconducting Qubits. Physical Review Letters, 2012, 109, 060501.	2.9	251
15	Implementing a strand of a scalable fault-tolerant quantum computing fabric. Nature Communications, 2014, 5, 4015.	5.8	234
16	Quantum-channel capacity of very noisy channels. Physical Review A, 1998, 57, 830-839.	1.0	216
17	Five two-bit quantum gates are sufficient to implement the quantum Fredkin gate. Physical Review A, 1996, 53, 2855-2856.	1.0	206
18	Self-consistent quantum process tomography. Physical Review A, 2013, 87, .	1.0	193

#	ARTICLE	IF	CITATIONS
19	Evidence for bound entangled states with negative partial transpose. <i>Physical Review A</i> , 2000, 61, .	1.0	171
20	Characterization of Addressability by Simultaneous Randomized Benchmarking. <i>Physical Review Letters</i> , 2012, 109, 240504.	2.9	164
21	Four-party unlockable bound entangled state. <i>Physical Review A</i> , 2001, 63, .	1.0	149
22	Process verification of two-qubit quantum gates by randomized benchmarking. <i>Physical Review A</i> , 2013, 87, .	1.0	134
23	Entanglement of assistance and multipartite state distillation. <i>Physical Review A</i> , 2005, 72, .	1.0	113
24	Degenerate Quantum Codes for Pauli Channels. <i>Physical Review Letters</i> , 2007, 98, 030501.	2.9	97
25	Three-Qubit Randomized Benchmarking. <i>Physical Review Letters</i> , 2019, 122, 200502.	2.9	96
26	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
27	Physical optimization of quantum error correction circuits. <i>Physical Review B</i> , 1999, 60, 11404-11416.	1.1	88
28	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
29	Superactivation of Bound Entanglement. <i>Physical Review Letters</i> , 2003, 90, 107901.	2.9	84
30	Laser-annealing Josephson junctions for yielding scaled-up superconducting quantum processors. <i>Npj Quantum Information</i> , 2021, 7, .	2.8	80
31	Codeword Stabilized Quantum Codes. <i>IEEE Transactions on Information Theory</i> , 2009, 55, 433-438.	1.5	79
32	Entanglement of Superpositions. <i>Physical Review Letters</i> , 2006, 97, 100502.	2.9	72
33	The Quantum Capacity With Symmetric Side Channels. <i>IEEE Transactions on Information Theory</i> , 2008, 54, 4208-4217.	1.5	68
34	Quantum communication with Gaussian channels of zero quantum capacity. <i>Nature Photonics</i> , 2011, 5, 624-627.	15.6	67
35	Scalable randomised benchmarking of non-Clifford gates. <i>Npj Quantum Information</i> , 2016, 2, .	2.8	65
36	Structured Codes Improve the Bennett-Brassard-84 Quantum Key Rate. <i>Physical Review Letters</i> , 2008, 100, 170502.	2.9	59

#	ARTICLE	IF	CITATIONS
37	Purification of Noisy Entanglement and Faithful Teleportation via Noisy Channels[Phys. Rev. Lett. 76, 722 (1996)]. Physical Review Letters, 1997, 78, 2031-2031.	2.9	57
38	Rank two bipartite bound entangled states do not exist. Theoretical Computer Science, 2003, 292, 589-596.	0.5	53
39	Unextendible maximally entangled bases. Physical Review A, 2011, 84, .	1.0	42
40	Extensive Nonadditivity of Privacy. Physical Review Letters, 2009, 103, 120503.	2.9	40
41	Single quantum querying of a database. Physical Review A, 1998, 58, 1822-1826.	1.0	39
42	How to efficiently select an arbitrary Clifford group element. Journal of Mathematical Physics, 2014, 55, .	0.5	36
43	Simple Family of Nonadditive Quantum Codes. Physical Review Letters, 2007, 99, 130505.	2.9	31
44	Simulating quantum operations with mixed environments. Physical Review A, 1999, 60, 881-885.	1.0	28
45	High Performance Single-Error-Correcting Quantum Codes for Amplitude Damping. IEEE Transactions on Information Theory, 2011, 57, 7180-7188.	1.5	27
46	Parity bit in quantum cryptography. Physical Review A, 1996, 54, 2675-2684.	1.0	26
47	Inequalities and Separations Among Assisted Capacities of Quantum Channels. Physical Review Letters, 2006, 96, 150502.	2.9	26
48	Quantum capacity is properly defined without encodings. Physical Review A, 1998, 58, 3496-3501.	1.0	25
49	Perfect quantum-error-correction coding in 24 laser pulses. Physical Review A, 1997, 55, 945-950.	1.0	23
50	Bound Entangled States with a Private Key and their Classical Counterpart. Physical Review Letters, 2014, 112, 110502.	2.9	16
51	Can Nonprivate Channels Transmit Quantum Information?. Physical Review Letters, 2009, 102, 010501.	2.9	15
52	Detecting Incapacity of a Quantum Channel. Physical Review Letters, 2012, 108, 230507.	2.9	14
53	Maximal Privacy without Coherence. Physical Review Letters, 2014, 113, 030502.	2.9	10
54	Codeword stabilized quantum codes. , 2008, , .		6

#	ARTICLE	IF	CITATIONS
55	Multipartite entanglement gambling: The power of asymptotic state transformations assisted by a sublinear amount of quantum communication. Physical Review A, 2003, 68, .	1.0	5
56	An exactly solvable model for quantum communications. Nature, 2013, 504, 263-267.	13.7	4
57	Hardware-efficient random circuits to classify noise in a multiqubit system. Physical Review A, 2021, 104, .	1.0	2