

# Richard Cleve

## List of Publications by Year in descending order

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31  
papers

8,603  
citations

361413

20  
h-index

552781

26  
g-index

31  
all docs

31  
docs citations

31  
times ranked

4135  
citing authors

#	ARTICLE	IF	CITATIONS
1	Elementary gates for quantum computation. <i>Physical Review A</i> , 1995, 52, 3457-3467.	2.5	2,958
2	How to Share a Quantum Secret. <i>Physical Review Letters</i> , 1999, 83, 648-651.	7.8	1,082
3	Quantum Fingerprinting. <i>Physical Review Letters</i> , 2001, 87, 167902.	7.8	739
4	Efficient Quantum Algorithms for Simulating Sparse Hamiltonians. <i>Communications in Mathematical Physics</i> , 2007, 270, 359-371.	2.2	440
5	Nonlocality and communication complexity. <i>Reviews of Modern Physics</i> , 2010, 82, 665-698.	45.6	396
6	Exact and approximate unitary 2-designs and their application to fidelity estimation. <i>Physical Review A</i> , 2009, 80, .	2.5	376
7	Simulating Hamiltonian Dynamics with a Truncated Taylor Series. <i>Physical Review Letters</i> , 2015, 114, 090502.	7.8	375
8	Exponential algorithmic speedup by a quantum walk. , 2003, , .		374
9	Quantum lower bounds by polynomials. <i>Journal of the ACM</i> , 2001, 48, 778-797.	2.2	356
10	Substituting quantum entanglement for communication. <i>Physical Review A</i> , 1997, 56, 1201-1204.	2.5	296
11	Cost of Exactly Simulating Quantum Entanglement with Classical Communication. <i>Physical Review Letters</i> , 1999, 83, 1874-1877.	7.8	236
12	Experimental Realization of an Order-Finding Algorithm with an NMR Quantum Computer. <i>Physical Review Letters</i> , 2000, 85, 5452-5455.	7.8	137
13	Teleportation as a quantum computation. <i>Physica D: Nonlinear Phenomena</i> , 1998, 120, 43-47.	2.8	129
14	Exponential improvement in precision for simulating sparse Hamiltonians. , 2014, , .		121
15	Computing Algebraic Formulas Using a Constant Number of Registers. <i>SIAM Journal on Computing</i> , 1992, 21, 54-58.	1.0	96
16	Quantum Entanglement and Communication Complexity. <i>SIAM Journal on Computing</i> , 2001, 30, 1829-1841.	1.0	86
17	Efficient computations of encodings for quantum error correction. <i>Physical Review A</i> , 1997, 56, 76-82.	2.5	71
18	Quantum Entanglement and the Communication Complexity of the Inner Product Function. <i>Lecture Notes in Computer Science</i> , 1999, , 61-74.	1.3	54

#	ARTICLE	IF	CITATIONS
19	Classical simulation of quantum entanglement without local hidden variables. <i>Physical Review A</i> , 2001, 63, .	2.5	51
20	Perfect Parallel Repetition Theorem for Quantum Xor Proof Systems. <i>Computational Complexity</i> , 2008, 17, 282-299.	0.3	45
21	Schumacher's quantum data compression as a quantum computation. <i>Physical Review A</i> , 1996, 54, 2636-2650.	2.5	34
22	Classical Simulation of Entanglement Swapping with Bounded Communication. <i>Physical Review Letters</i> , 2012, 109, 100401.	7.8	23
23	Perfect commuting-operator strategies for linear system games. <i>Journal of Mathematical Physics</i> , 2017, 58, .	1.1	23
24	Quantum stabilizer codes and classical linear codes. <i>Physical Review A</i> , 1997, 55, 4054-4059.	2.5	22
25	Information-theoretic interpretation of quantum error-correcting codes. <i>Physical Review A</i> , 1997, 56, 1721-1732.	2.5	21
26	Efficient discrete-time simulations of continuous-time quantum query algorithms. , 2009, , .		16
27	EXPONENTIAL IMPROVEMENT IN PRECISION FOR SIMULATING SPARSE HAMILTONIANS. <i>Forum of Mathematics, Sigma</i> , 2017, 5, .	0.7	14
28	Computing with a full memory. , 2014, , .		11
29	Quantum entanglement and the communication complexity of the inner product function. <i>Theoretical Computer Science</i> , 2013, 486, 11-19.	0.9	10
30	Perfect embezzlement of entanglement. <i>Journal of Mathematical Physics</i> , 2017, 58, 012204.	1.1	10
31	Constant gap between conventional strategies and those based on $C^*$ -dynamics for self-embezzlement. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 6, 755.	0.0	1