

Charles H H Bennett

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7622350/publications.pdf>

Version: 2024-02-01

86
papers

53,578
citations

34105

52
h-index

66911

78
g-index

87
all docs

87
docs citations

87
times ranked

15315
citing authors

#	ARTICLE	IF	CITATIONS
1	Teleporting an unknown quantum state via dual classical and Einstein-Podolsky-Rosen channels. Physical Review Letters, 1993, 70, 1895-1899.	7.8	10,750
2	Communication via one- and two-particle operators on Einstein-Podolsky-Rosen states. Physical Review Letters, 1992, 69, 2881-2884.	7.8	4,310
3	Mixed-state entanglement and quantum error correction. Physical Review A, 1996, 54, 3824-3851.	2.5	4,032
4	Elementary gates for quantum computation. Physical Review A, 1995, 52, 3457-3467.	2.5	2,958
5	Logical Reversibility of Computation. IBM Journal of Research and Development, 1973, 17, 525-532.	3.1	2,689
6	Concentrating partial entanglement by local operations. Physical Review A, 1996, 53, 2046-2052.	2.5	2,436
7	Quantum cryptography using any two nonorthogonal states. Physical Review Letters, 1992, 68, 3121-3124.	7.8	2,396
8	Purification of Noisy Entanglement and Faithful Teleportation via Noisy Channels. Physical Review Letters, 1996, 76, 722-725.	7.8	2,318
9	Efficient estimation of free energy differences from Monte Carlo data. Journal of Computational Physics, 1976, 22, 245-268.	3.8	2,280
10	Quantum information and computation. Nature, 2000, 404, 247-255.	27.8	2,142
11	Quantum cryptography without Bell's theorem. Physical Review Letters, 1992, 68, 557-559.	7.8	1,871
12	Experimental quantum cryptography. Journal of Cryptology, 1992, 5, 3-28.	2.8	1,507
13	The thermodynamics of computation—a review. International Journal of Theoretical Physics, 1982, 21, 905-940.	1.2	1,411
14	Generalized privacy amplification. IEEE Transactions on Information Theory, 1995, 41, 1915-1923.	2.4	1,045
15	Strengths and Weaknesses of Quantum Computing. SIAM Journal on Computing, 1997, 26, 1510-1523.	1.0	906
16	Quantum nonlocality without entanglement. Physical Review A, 1999, 59, 1070-1091.	2.5	829
17	Remote State Preparation. Physical Review Letters, 2001, 87, 077902.	7.8	699
18	Privacy Amplification by Public Discussion. SIAM Journal on Computing, 1988, 17, 210-229.	1.0	694

#	ARTICLE	IF	CITATIONS
19	Serially Deposited Amorphous Aggregates of Hard Spheres. <i>Journal of Applied Physics</i> , 1972, 43, 2727-2734.	2.5	584
20	Unextendible Product Bases and Bound Entanglement. <i>Physical Review Letters</i> , 1999, 82, 5385-5388.	7.8	569
21	Quantum Information and Computation. <i>Physics Today</i> , 1995, 48, 24-30.	0.3	505
22	Entanglement-assisted capacity of a quantum channel and the reverse Shannon theorem. <i>IEEE Transactions on Information Theory</i> , 2002, 48, 2637-2655.	2.4	456
23	Entanglement-Assisted Classical Capacity of Noisy Quantum Channels. <i>Physical Review Letters</i> , 1999, 83, 3081-3084.	7.8	439
24	Information distance. <i>IEEE Transactions on Information Theory</i> , 1998, 44, 1407-1423.	2.4	377
25	Relative to a Random Oracle A , $\{P\}^A \in \{f\}^{NP^A} \text{ ext}\{co\}\{f\}^{NP^A}$ with Probability 1. <i>SIAM Journal on Computing</i> , 1981, 10, 96-113.	1.0	359
26	Notes on Landauer's principle, reversible computation, and Maxwell's Demon. <i>Studies in History and Philosophy of Science Part B - Studies in History and Philosophy of Modern Physics</i> , 2003, 34, 501-510.	1.4	332
27	Exact and asymptotic measures of multipartite pure-state entanglement. <i>Physical Review A</i> , 2000, 63, .	2.5	323
28	Quantum information theory. <i>IEEE Transactions on Information Theory</i> , 1998, 44, 2724-2742.	2.4	317
29	Capacities of Quantum Erasure Channels. <i>Physical Review Letters</i> , 1997, 78, 3217-3220.	7.8	297
30	The Fundamental Physical Limits of Computation. <i>Scientific American</i> , 1985, 253, 48-56.	1.0	296
31	Time/Space Trade-Offs for Reversible Computation. <i>SIAM Journal on Computing</i> , 1989, 18, 766-776.	1.0	277
32	Notes on the history of reversible computation. <i>IBM Journal of Research and Development</i> , 1988, 32, 16-23.	3.1	263
33	Experimental Quantum Cryptography. <i>Lecture Notes in Computer Science</i> , 1991, , 253-265.	1.3	241
34	Demons, Engines and the Second Law. <i>Scientific American</i> , 1987, 257, 108-116.	1.0	218
35	Role of Irreversibility in Stabilizing Complex and Nonergodic Behavior in Locally Interacting Discrete Systems. <i>Physical Review Letters</i> , 1985, 55, 657-660.	7.8	143
36	Dissipation-error tradeoff in proofreading. <i>BioSystems</i> , 1979, 11, 85-91.	2.0	135

#	ARTICLE	IF	CITATIONS
37	Remote Preparation of Quantum States. IEEE Transactions on Information Theory, 2005, 51, 56-74.	2.4	129
38	The Quantum Reverse Shannon Theorem and Resource Tradeoffs for Simulating Quantum Channels. IEEE Transactions on Information Theory, 2014, 60, 2926-2959.	2.4	122
39	On the capacities of bipartite hamiltonians and unitary gates. IEEE Transactions on Information Theory, 2003, 49, 1895-1911.	2.4	112
40	Practical Quantum Oblivious Transfer. , 1991, , 351-366.		103
41	On the stability of vacancy and vacancy clusters in amorphous solids. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1979, 40, 485-495.	0.6	94
42	Notes on the history of reversible computation. IBM Journal of Research and Development, 2000, 44, 270-277.	3.1	91
43	Quantum Cryptography, or Unforgeable Subway Tokens. , 1983, , 267-275.		91
44	Chain Letters and Evolutionary Histories. Scientific American, 2003, 288, 76-81.	1.0	88
45	Mass tensor molecular dynamics. Journal of Computational Physics, 1975, 19, 267-279.	3.8	82
46	The Properties of a Ferrocene-Tetracyanoethylene Charge-Transfer Complex. Journal of the American Chemical Society, 1964, 86, 5166-5170.	13.7	80
47	On the nature and origin of complexity in discrete, homogeneous, locally-interacting systems. Foundations of Physics, 1986, 16, 585-592.	1.3	77
48	Quantum Cryptography: Uncertainty in the Service of Privacy. Science, 1992, 257, 752-753.	12.6	67
49	Postulates for measures of genuine multipartite correlations. Physical Review A, 2011, 83, .	2.5	67
50	An Update on Quantum Cryptography. , 1984, , 475-480.		63
51	Role of composition in metallic glass formation. Acta Metallurgica, 1971, 19, 1295-1298.	2.1	62
52	Can Closed Timelike Curves or Nonlinear Quantum Mechanics Improve Quantum State Discrimination or Help Solve Hard Problems?. Physical Review Letters, 2009, 103, 170502.	7.8	62
53	Purification of Noisy Entanglement and Faithful Teleportation via Noisy Channels[Phys. Rev. Lett. 76, 722 (1996)]. Physical Review Letters, 1997, 78, 2031-2031.	7.8	57
54	Stability of temporally periodic states of classical many-body systems. Physical Review A, 1990, 41, 1932-1935.	2.5	56

#	ARTICLE	IF	CITATIONS
55	Quantum Information. Physica Scripta, 1998, T76, 210.	2.5	55
56	Studies in Molecular Dynamics. IX. Vacancies in Hard Sphere Crystals. Journal of Chemical Physics, 1971, 54, 4796-4808.	3.0	50
57	Kinematics of the forced and overdamped sine-Gordon soliton gas. Journal of Statistical Physics, 1981, 24, 419-442.	1.2	50
58	The Structure and Chemistry of Ferrocene. VI. Mechanism of the Arylation Reaction. Journal of the American Chemical Society, 1962, 84, 2726-2732.	13.7	48
59	Temporally periodic phases and kinetic roughening. Physical Review Letters, 1993, 70, 3607-3610.	7.8	42
60	Towards an engineering era?. Nature, 1995, 377, 389-390.	27.8	34
61	Entanglement-Enhanced Classical Communication on a Noisy Quantum Channel. , 1997, , 79-88.		32
62	Persistence of vacancy motion in hard sphere crystals. Journal of Physics and Chemistry of Solids, 1971, 32, 2111-2122.	4.0	28
63	Thermodynamically Reversible Computation. Physical Review Letters, 1984, 53, 1202-1202.	7.8	27
64	Universal quantum data compression via nondestructive tomography. Physical Review A, 2006, 73, .	2.5	27
65	Parity bit in quantum cryptography. Physical Review A, 1996, 54, 2675-2684.	2.5	26
66	Inequalities and Separations Among Assisted Capacities of Quantum Channels. Physical Review Letters, 2006, 96, 150502.	7.8	26
67	Reduction of Quantum Entropy by Reversible Extraction of Classical Information. Journal of Modern Optics, 1994, 41, 2307-2314.	1.3	25
68	Universal computation and physical dynamics. Physica D: Nonlinear Phenomena, 1995, 86, 268-273.	2.8	23
69	Logical Depth and Physical Complexity. Computerkultur, 1995, , 207-235.	0.0	22
70	COMPUTERS AND MATHEMATICS: Quantum Channel Capacities. Science, 2004, 303, 1784-1787.	12.6	21
71	Quantum Information: Qubits and Quantum Error Correction. International Journal of Theoretical Physics, 2003, 42, 153-176.	1.2	18
72	Thermodynamics of computation and information distance. , 1993, , .		17

#	ARTICLE	IF	CITATIONS
73	QUANTUM CRYPTOGRAPHY:Privacy in a Quantum World. Science, 1999, 284, 747-748.	12.6	15
74	Undecidable dynamics. Nature, 1990, 346, 606-607.	27.8	14
75	Molecular dynamics calculation of the isotope effect for vacancy diffusion. Thin Solid Films, 1975, 25, 65-70.	1.8	13
76	Night thoughts, dark sight. Nature, 1994, 371, 479-480.	27.8	13
77	Bond-energy variables for Ising spin-glass dynamics. Physical Review B, 1988, 37, 2254-2254.	3.2	9
78	The Second Law and Quantum Physics. , 2008, , .		7
79	Classical and Quantum Information Transmission and Interactions. , 1997, , 25-39.		5
80	Certainty from uncertainty. Nature, 1993, 362, 694-695.	27.8	4
81	Dissipation, anisotropy, and the stabilization of computationally complex states of homogeneous media. Physica A: Statistical Mechanics and Its Applications, 1990, 163, 393-397.	2.6	2
82	Publicity, Privacy, and Permanence of Information. AIP Conference Proceedings, 2006, , .	0.4	2
83	Comment on "The Aestivation Hypothesis for Resolving Fermi's Paradox". Foundations of Physics, 2019, 49, 820-829.	1.3	2
84	Quantum Cryptography: Principles and Prospects (Quantumkryptographie: Prinzipien und Ausblick). IT - Information Technology, 2006, 48, 332-335.	0.9	1
85	Rolf Landauer - in Memoriam. Applicable Algebra in Engineering, Communications and Computing, 2000, 10, 273-276.	0.5	0
86	Thermodynamics of error correction: speed-error-dissipation tradeoff in copying. , 2008, , .		0