

Charles H H Bennett

List of Publications by Year in descending order

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87
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87
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times ranked

15315
citing authors

#	ARTICLE	IF	CITATIONS
1	Comment on "The Aestivation Hypothesis for Resolving Fermi's Paradox". Foundations of Physics, 2019, 49, 820-829.	1.3	2
2	The Quantum Reverse Shannon Theorem and Resource Tradeoffs for Simulating Quantum Channels. IEEE Transactions on Information Theory, 2014, 60, 2926-2959.	2.4	122
3	Postulates for measures of genuine multipartite correlations. Physical Review A, 2011, 83, .	2.5	67
4	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
5	Thermodynamics of error correction: speed-error-dissipation tradeoff in copying. , 2008, , .		0
6	The Second Law and Quantum Physics. , 2008, , .		7
7	Publicity, Privacy, and Permanence of Information. AIP Conference Proceedings, 2006, , .	0.4	2
8	Quantum Cryptography: Principles and Prospects (Quantumkryptographie: Prinzipien und Ausblick). IT - Information Technology, 2006, 48, 332-335.	0.9	1
9	Inequalities and Separations Among Assisted Capacities of Quantum Channels. Physical Review Letters, 2006, 96, 150502.	7.8	26
10	Universal quantum data compression via nondestructive tomography. Physical Review A, 2006, 73, .	2.5	27
11	Remote Preparation of Quantum States. IEEE Transactions on Information Theory, 2005, 51, 56-74.	2.4	129
12	COMPUTERS AND MATHEMATICS: Quantum Channel Capacities. Science, 2004, 303, 1784-1787.	12.6	21
13	Quantum Information: Qubits and Quantum Error Correction. International Journal of Theoretical Physics, 2003, 42, 153-176.	1.2	18
14	On the capacities of bipartite hamiltonians and unitary gates. IEEE Transactions on Information Theory, 2003, 49, 1895-1911.	2.4	112
15	Notes on Landauer's principle, reversible computation, and Maxwell's Demon. Studies in History and Philosophy of Science Part B - Studies in History and Philosophy of Modern Physics, 2003, 34, 501-510.	1.4	332
16	Chain Letters and Evolutionary Histories. Scientific American, 2003, 288, 76-81.	1.0	88
17	Entanglement-assisted capacity of a quantum channel and the reverse Shannon theorem. IEEE Transactions on Information Theory, 2002, 48, 2637-2655.	2.4	456
18	Remote State Preparation. Physical Review Letters, 2001, 87, 077902.	7.8	699

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19	Quantum information and computation. Nature, 2000, 404, 247-255.	27.8	2,142
20	Rolf Landauer - in Memoriam. Applicable Algebra in Engineering, Communications and Computing, 2000, 10, 273-276.	0.5	0
21	Notes on the history of reversible computation. IBM Journal of Research and Development, 2000, 44, 270-277.	3.1	91
22	Exact and asymptotic measures of multipartite pure-state entanglement. Physical Review A, 2000, 63, .	2.5	323
23	Entanglement-Assisted Classical Capacity of Noisy Quantum Channels. Physical Review Letters, 1999, 83, 3081-3084.	7.8	439
24	Unextendible Product Bases and Bound Entanglement. Physical Review Letters, 1999, 82, 5385-5388.	7.8	569
25	QUANTUM CRYPTOGRAPHY:Privacy in a Quantum World. Science, 1999, 284, 747-748.	12.6	15
26	Quantum nonlocality without entanglement. Physical Review A, 1999, 59, 1070-1091.	2.5	829
27	Information distance. IEEE Transactions on Information Theory, 1998, 44, 1407-1423.	2.4	377
28	Quantum information theory. IEEE Transactions on Information Theory, 1998, 44, 2724-2742.	2.4	317
29	Quantum Information. Physica Scripta, 1998, T76, 210.	2.5	55
30	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
31	Capacities of Quantum Erasure Channels. Physical Review Letters, 1997, 78, 3217-3220.	7.8	297
32	Entanglement-Enhanced Classical Communication on a Noisy Quantum Channel. , 1997, , 79-88.		32
33	Strengths and Weaknesses of Quantum Computing. SIAM Journal on Computing, 1997, 26, 1510-1523.	1.0	906
34	Classical and Quantum Information Transmission and Interactions. , 1997, , 25-39.		5
35	Mixed-state entanglement and quantum error correction. Physical Review A, 1996, 54, 3824-3851.	2.5	4,032
36	Purification of Noisy Entanglement and Faithful Teleportation via Noisy Channels. Physical Review Letters, 1996, 76, 722-725.	7.8	2,318

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37	Concentrating partial entanglement by local operations. <i>Physical Review A</i> , 1996, 53, 2046-2052.	2.5	2,436
38	Parity bit in quantum cryptography. <i>Physical Review A</i> , 1996, 54, 2675-2684.	2.5	26
39	Towards an engineering era?. <i>Nature</i> , 1995, 377, 389-390.	27.8	34
40	Universal computation and physical dynamics. <i>Physica D: Nonlinear Phenomena</i> , 1995, 86, 268-273.	2.8	23
41	Elementary gates for quantum computation. <i>Physical Review A</i> , 1995, 52, 3457-3467.	2.5	2,958
42	Generalized privacy amplification. <i>IEEE Transactions on Information Theory</i> , 1995, 41, 1915-1923.	2.4	1,045
43	Quantum Information and Computation. <i>Physics Today</i> , 1995, 48, 24-30.	0.3	505
44	Logical Depth and Physical Complexity. <i>Computerkultur</i> , 1995, , 207-235.	0.0	22
45	Night thoughts, dark sight. <i>Nature</i> , 1994, 371, 479-480.	27.8	13
46	Reduction of Quantum Entropy by Reversible Extraction of Classical Information. <i>Journal of Modern Optics</i> , 1994, 41, 2307-2314.	1.3	25
47	Certainty from uncertainty. <i>Nature</i> , 1993, 362, 694-695.	27.8	4
48	Teleporting an unknown quantum state via dual classical and Einstein-Podolsky-Rosen channels. <i>Physical Review Letters</i> , 1993, 70, 1895-1899.	7.8	10,750
49	Thermodynamics of computation and information distance. , 1993, , .		17
50	Temporally periodic phases and kinetic roughening. <i>Physical Review Letters</i> , 1993, 70, 3607-3610.	7.8	42
51	Quantum Cryptography: Uncertainty in the Service of Privacy. <i>Science</i> , 1992, 257, 752-753.	12.6	67
52	Communication via one- and two-particle operators on Einstein-Podolsky-Rosen states. <i>Physical Review Letters</i> , 1992, 69, 2881-2884.	7.8	4,310
53	Quantum cryptography without Bell's theorem. <i>Physical Review Letters</i> , 1992, 68, 557-559.	7.8	1,871
54	Experimental quantum cryptography. <i>Journal of Cryptology</i> , 1992, 5, 3-28.	2.8	1,507

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55	Quantum cryptography using any two nonorthogonal states. <i>Physical Review Letters</i> , 1992, 68, 3121-3124.	7.8	2,396
56	Practical Quantum Oblivious Transfer. , 1991, , 351-366.		103
57	Experimental Quantum Cryptography. <i>Lecture Notes in Computer Science</i> , 1991, , 253-265.	1.3	241
58	Undecidable dynamics. <i>Nature</i> , 1990, 346, 606-607.	27.8	14
59	Dissipation, anisotropy, and the stabilization of computationally complex states of homogeneous media. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1990, 163, 393-397.	2.6	2
60	Stability of temporally periodic states of classical many-body systems. <i>Physical Review A</i> , 1990, 41, 1932-1935.	2.5	56
61	Time/Space Trade-Offs for Reversible Computation. <i>SIAM Journal on Computing</i> , 1989, 18, 766-776.	1.0	277
62	Notes on the history of reversible computation. <i>IBM Journal of Research and Development</i> , 1988, 32, 16-23.	3.1	263
63	Privacy Amplification by Public Discussion. <i>SIAM Journal on Computing</i> , 1988, 17, 210-229.	1.0	694
64	Bond-energy variables for Ising spin-glass dynamics. <i>Physical Review B</i> , 1988, 37, 2254-2254.	3.2	9
65	Demons, Engines and the Second Law. <i>Scientific American</i> , 1987, 257, 108-116.	1.0	218
66	On the nature and origin of complexity in discrete, homogeneous, locally-interacting systems. <i>Foundations of Physics</i> , 1986, 16, 585-592.	1.3	77
67	The Fundamental Physical Limits of Computation. <i>Scientific American</i> , 1985, 253, 48-56.	1.0	296
68	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
69	Thermodynamically Reversible Computation. <i>Physical Review Letters</i> , 1984, 53, 1202-1202.	7.8	27
70	An Update on Quantum Cryptography. , 1984, , 475-480.		63
71	Quantum Cryptography, or Unforgeable Subway Tokens. , 1983, , 267-275.		91
72	The thermodynamics of computationâ€™a review. <i>International Journal of Theoretical Physics</i> , 1982, 21, 905-940.	1.2	1,411

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73	Kinematics of the forced and overdamped sine-Gordon soliton gas. <i>Journal of Statistical Physics</i> , 1981, 24, 419-442.	1.2	50
74	Relative to a Random Oracle A, $\Pr\{P^A \in \text{co-NP}^A\}$ with Probability 1. <i>SIAM Journal on Computing</i> , 1981, 10, 96-113.	1.0	359
75	On the stability of vacancy and vacancy clusters in amorphous solids. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1979, 40, 485-495.	0.6	94
76	Dissipation-error tradeoff in proofreading. <i>BioSystems</i> , 1979, 11, 85-91.	2.0	135
77	Efficient estimation of free energy differences from Monte Carlo data. <i>Journal of Computational Physics</i> , 1976, 22, 245-268.	3.8	2,280
78	Mass tensor molecular dynamics. <i>Journal of Computational Physics</i> , 1975, 19, 267-279.	3.8	82
79	Molecular dynamics calculation of the isotope effect for vacancy diffusion. <i>Thin Solid Films</i> , 1975, 25, 65-70.	1.8	13
80	Logical Reversibility of Computation. <i>IBM Journal of Research and Development</i> , 1973, 17, 525-532.	3.1	2,689
81	Serially Deposited Amorphous Aggregates of Hard Spheres. <i>Journal of Applied Physics</i> , 1972, 43, 2727-2734.	2.5	584
82	Persistence of vacancy motion in hard sphere crystals. <i>Journal of Physics and Chemistry of Solids</i> , 1971, 32, 2111-2122.	4.0	28
83	Role of composition in metallic glass formation. <i>Acta Metallurgica</i> , 1971, 19, 1295-1298.	2.1	62
84	Studies in Molecular Dynamics. IX. Vacancies in Hard Sphere Crystals. <i>Journal of Chemical Physics</i> , 1971, 54, 4796-4808.	3.0	50
85	The Properties of a Ferrocene-Tetracyanoethylene Charge-Transfer Complex. <i>Journal of the American Chemical Society</i> , 1964, 86, 5166-5170.	13.7	80
86	The Structure and Chemistry of Ferrocene. VI. Mechanism of the Arylation Reaction. <i>Journal of the American Chemical Society</i> , 1962, 84, 2726-2732.	13.7	48