

# Charles H H Bennett

## List of Publications by Citations

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81  
papers

42,806  
citations

49  
h-index

87  
g-index

87  
ext. papers

48,261  
ext. citations

7.8  
avg, IF

7.32  
L-index

#	Paper	IF	Citations
81	Teleporting an unknown quantum state via dual classical and Einstein-Podolsky-Rosen channels. <i>Physical Review Letters</i> , <b>1993</b> , 70, 1895-1899	7.4	8817
80	Communication via one- and two-particle operators on Einstein-Podolsky-Rosen states. <i>Physical Review Letters</i> , <b>1992</b> , 69, 2881-2884	7.4	3595
79	Mixed-state entanglement and quantum error correction. <i>Physical Review A</i> , <b>1996</b> , 54, 3824-3851	2.6	3406
78	Elementary gates for quantum computation. <i>Physical Review A</i> , <b>1995</b> , 52, 3457-3467	2.6	2158
77	Concentrating partial entanglement by local operations. <i>Physical Review A</i> , <b>1996</b> , 53, 2046-2052	2.6	2101
76	Purification of noisy entanglement and faithful teleportation via noisy channels. <i>Physical Review Letters</i> , <b>1996</b> , 76, 722-725	7.4	1931
75	Logical Reversibility of Computation. <i>IBM Journal of Research and Development</i> , <b>1973</b> , 17, 525-532	2.5	1911
74	Efficient estimation of free energy differences from Monte Carlo data. <i>Journal of Computational Physics</i> , <b>1976</b> , 22, 245-268	4.1	1898
73	Quantum cryptography using any two nonorthogonal states. <i>Physical Review Letters</i> , <b>1992</b> , 68, 3121-3124	4.4	1857
72	Quantum information and computation. <i>Nature</i> , <b>2000</b> , 404, 247-55	50.4	1766
71	Quantum cryptography without Bell's theorem. <i>Physical Review Letters</i> , <b>1992</b> , 68, 557-559	7.4	1457
70	Experimental quantum cryptography. <i>Journal of Cryptology</i> , <b>1992</b> , 5, 3-28	2.1	1178
69	The thermodynamics of computation—review. <i>International Journal of Theoretical Physics</i> , <b>1982</b> , 21, 905-940	1.1	1027
68	Generalized privacy amplification. <i>IEEE Transactions on Information Theory</i> , <b>1995</b> , 41, 1915-1923	2.8	823
67	Quantum nonlocality without entanglement. <i>Physical Review A</i> , <b>1999</b> , 59, 1070-1091	2.6	679
66	Strengths and Weaknesses of Quantum Computing. <i>SIAM Journal on Computing</i> , <b>1997</b> , 26, 1510-1523	1.1	665
65	Remote state preparation. <i>Physical Review Letters</i> , <b>2001</b> , 87, 077902	7.4	578

64	Privacy Amplification by Public Discussion. <i>SIAM Journal on Computing</i> , <b>1988</b> , 17, 210-229	1.1	557
63	Serially Deposited Amorphous Aggregates of Hard Spheres. <i>Journal of Applied Physics</i> , <b>1972</b> , 43, 2727-2734		530
62	Unextendible Product Bases and Bound Entanglement. <i>Physical Review Letters</i> , <b>1999</b> , 82, 5385-5388	7.4	475
61	Quantum Information and Computation. <i>Physics Today</i> , <b>1995</b> , 48, 24-30	0.9	402
60	Entanglement-Assisted Classical Capacity of Noisy Quantum Channels. <i>Physical Review Letters</i> , <b>1999</b> , 83, 3081-3084	7.4	350
59	Entanglement-assisted capacity of a quantum channel and the reverse Shannon theorem. <i>IEEE Transactions on Information Theory</i> , <b>2002</b> , 48, 2637-2655	2.8	341
58	Information distance. <i>IEEE Transactions on Information Theory</i> , <b>1998</b> , 44, 1407-1423	2.8	308
57	Relative to a Random Oracle $A$ , $\{P\}^A \neq \{NP\}^A$ with Probability 1. <i>SIAM Journal on Computing</i> , <b>1981</b> , 10, 96-113	1.1	295
56	Exact and asymptotic measures of multipartite pure-state entanglement. <i>Physical Review A</i> , <b>2000</b> , 63,	2.6	276
55	Quantum information theory. <i>IEEE Transactions on Information Theory</i> , <b>1998</b> , 44, 2724-2742	2.8	266
54	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> , <b>2003</b> , 34, 501-510	1	228
53	Capacities of Quantum Erasure Channels. <i>Physical Review Letters</i> , <b>1997</b> , 78, 3217-3220	7.4	217
52	Time/Space Trade-Offs for Reversible Computation. <i>SIAM Journal on Computing</i> , <b>1989</b> , 18, 766-776	1.1	215
51	The Fundamental Physical Limits of Computation. <i>Scientific American</i> , <b>1985</b> , 253, 48-56	0.5	200
50	. <i>IBM Journal of Research and Development</i> , <b>1988</b> , 32, 16-23	2.5	175
49	Demons, Engines and the Second Law. <i>Scientific American</i> , <b>1987</b> , 257, 108-116	0.5	172
48	Role of irreversibility in stabilizing complex and nonergodic behavior in locally interacting discrete systems. <i>Physical Review Letters</i> , <b>1985</b> , 55, 657-660	7.4	132
47	Dissipation-error tradeoff in proofreading. <i>BioSystems</i> , <b>1979</b> , 11, 85-91	1.9	117

46	Remote preparation of quantum states. <i>IEEE Transactions on Information Theory</i> , <b>2005</b> , 51, 56-74	2.8	107
45	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> , <b>1979</b> , 40, 485-495		90
44	On the capacities of bipartite Hamiltonians and unitary gates. <i>IEEE Transactions on Information Theory</i> , <b>2003</b> , 49, 1895-1911	2.8	88
43	The Quantum Reverse Shannon Theorem and Resource Tradeoffs for Simulating Quantum Channels. <i>IEEE Transactions on Information Theory</i> , <b>2014</b> , 60, 2926-2959	2.8	86
42	Mass tensor molecular dynamics. <i>Journal of Computational Physics</i> , <b>1975</b> , 19, 267-279	4.1	76
41	Practical Quantum Oblivious Transfer <b>1991</b> , 351-366		71
40	On the nature and origin of complexity in discrete, homogeneous, locally-interacting systems. <i>Foundations of Physics</i> , <b>1986</b> , 16, 585-592	1.2	69
39	The Properties of a Ferrocene-Tetracyanoethylene Charge-Transfer Complex. <i>Journal of the American Chemical Society</i> , <b>1964</b> , 86, 5166-5170	16.4	66
38	Chain letters & evolutionary histories. <i>Scientific American</i> , <b>2003</b> , 288, 76-81	0.5	63
37	Postulates for measures of genuine multipartite correlations. <i>Physical Review A</i> , <b>2011</b> , 83,	2.6	58
36	Role of composition in metallic glass formation. <i>Acta Metallurgica</i> , <b>1971</b> , 19, 1295-1298		58
35	Quantum Cryptography, or Unforgeable Subway Tokens <b>1983</b> , 267-275		58
34	Quantum cryptography: uncertainty in the service of privacy. <i>Science</i> , <b>1992</b> , 257, 752-3	33.3	51
33	Purification of Noisy Entanglement and Faithful Teleportation via Noisy Channels[Phys. Rev. Lett. 76, 722 (1996)]. <i>Physical Review Letters</i> , <b>1997</b> , 78, 2031-2031	7.4	50
32	Stability of temporally periodic states of classical many-body systems. <i>Physical Review A</i> , <b>1990</b> , 41, 1932-1935	10.35	48
31	Can closed timelike curves or nonlinear quantum mechanics improve quantum state discrimination or help solve hard problems?. <i>Physical Review Letters</i> , <b>2009</b> , 103, 170502	7.4	47
30	Kinematics of the forced and overdamped sine-Gordon soliton gas. <i>Journal of Statistical Physics</i> , <b>1981</b> , 24, 419-442	1.5	45
29	Quantum Information. <i>Physica Scripta</i> , <b>1998</b> , T76, 210	2.6	44

28	Studies in Molecular Dynamics. IX. Vacancies in Hard Sphere Crystals. <i>Journal of Chemical Physics</i> , <b>1971</b> , 54, 4796-4808	3.9	43
27	The Structure and Chemistry of Ferrocene. VI. Mechanism of the Arylation Reaction. <i>Journal of the American Chemical Society</i> , <b>1962</b> , 84, 2726-2732	16.4	40
26	Temporally periodic phases and kinetic roughening. <i>Physical Review Letters</i> , <b>1993</b> , 70, 3607-3610	7.4	37
25	An Update on Quantum Cryptography <b>1984</b> , 475-480		37
24	. <i>IBM Journal of Research and Development</i> , <b>2000</b> , 44, 270-277	2.5	27
23	Persistence of vacancy motion in hard sphere crystals. <i>Journal of Physics and Chemistry of Solids</i> , <b>1971</b> , 32, 2111-2122	3.9	24
22	Entanglement-Enhanced Classical Communication on a Noisy Quantum Channel <b>1997</b> , 79-88		21
21	Inequalities and separations among assisted capacities of quantum channels. <i>Physical Review Letters</i> , <b>2006</b> , 96, 150502	7.4	21
20	Parity bit in quantum cryptography. <i>Physical Review A</i> , <b>1996</b> , 54, 2675-2684	2.6	21
19	Universal quantum data compression via nondestructive tomography. <i>Physical Review A</i> , <b>2006</b> , 73,	2.6	20
18	Universal computation and physical dynamics. <i>Physica D: Nonlinear Phenomena</i> , <b>1995</b> , 86, 268-273	3.3	20
17	Reduction of Quantum Entropy by Reversible Extraction of Classical Information. <i>Journal of Modern Optics</i> , <b>1994</b> , 41, 2307-2314	1.1	20
16	Thermodynamically Reversible Computation. <i>Physical Review Letters</i> , <b>1984</b> , 53, 1202-1202	7.4	18
15	Logical Depth and Physical Complexity. <i>Computerkultur</i> , <b>1995</b> , 207-235		18
14	Computers and mathematics. Quantum channel capacities. <i>Science</i> , <b>2004</b> , 303, 1784-7	33.3	16
13	QUANTUM CRYPTOGRAPHY: Privacy in a Quantum World. <i>Science</i> , <b>1999</b> , 284, 747-748	33.3	14
12	Experimental Quantum Cryptography. <i>Lecture Notes in Computer Science</i> , <b>1991</b> , 253-265	0.9	14
11	Molecular dynamics calculation of the isotope effect for vacancy diffusion. <i>Thin Solid Films</i> , <b>1975</b> , 25, 65-70	2.2	13

10	Quantum Information: Qubits and Quantum Error Correction. <i>International Journal of Theoretical Physics</i> , <b>2003</b> , 42, 153-176	1.1	12
9	Thermodynamics of computation and information distance <b>1993</b> ,		8
8	Bond-energy variables for Ising spin-glass dynamics. <i>Physical Review B</i> , <b>1988</b> , 37, 2254	3.3	7
7	The Second Law and Quantum Physics <b>2008</b> ,		4
6	Classical and Quantum Information Transmission and Interactions <b>1997</b> , 25-39		4
5	Publicity, Privacy, and Permanence of Information. <i>AIP Conference Proceedings</i> , <b>2006</b> ,	0	2
4	Dissipation, anisotropy, and the stabilization of computationally complex states of homogeneous media. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1990</b> , 163, 393-397	3.3	2
3	Comment on "The Aestivation Hypothesis for Resolving Fermi's Paradox" <i>Foundations of Physics</i> , <b>2019</b> , 49, 820-829	1.2	1
2	Quantum Cryptography: Principles and Prospects (Quantumkryptographie: Prinzipien und Ausblick). <i>IT - Information Technology</i> , <b>2006</b> , 48, 332-335	0.4	1
1	Rolf Landauer In Memoriam. <i>Applicable Algebra in Engineering, Communications and Computing</i> , <b>2000</b> , 10, 273-276	0.6	